MBL/WHOI
0 0301 0053014 3

DEUTSCHE SÜDPOLAR-EXPEDITION

1901—1903

IM AUFTRAGE DES REICHSAMTES DES INNERN

HERAUSGEGEBEN VON

ERICH VON DRYGALSKI

LEITER DER EXPEDITION

I. ATLAS
METEOROLOGIE

HEFT IV

W. MEINARDUS UND L. MECKING: TÄGLICHE SYNOPTISCHE WETTERKARTEN DER HÖHEREN SÜDLICHEN BREITEN VOM 11. JUNI 1903 BIS 31. MÄRZ 1904 (TAFEL 224—322 MIT 295 KARTEN).

BERLIN

DRUCK UND VERLAG VON GEORG REIMER

1915.

(AUSGEGEBEN IM JULI 1915.)

DEUTSCHE SÜDPOLAR-EXPEDITION.

Das Werk wird aus 16—17 Bänden Text mit ca. 1400 Textabbildungen, 60 Karten, vielen einfarbigen und mehrfarbigen Tafeln und einem Atlas von 2 Bänden bestehen. Die Gliederung des Textes ist wie folgt vorgesehen:

Band I: Technik und Geographie.
„ II: Geographie und Geologie.
„ III:/IV: Meteorologie.
Band V:/VI: Erdmagnetismus.
„ VII: Bakteriologie, Chemie, Hygiene, Sport.
„ VIII: Botanik.
„ IX ff.: Zoologie.

Die Bände des Atlas enthalten erdmagnetische und meteorologische Registrierungen und synoptische Wetterkarten. Ausgleiche und Verschiebungen in dem obigen Rahmen können erfolgen, doch der Plan des Ganzen dürfte feststehend sein.

Die Erfüllung des obigen Planes durch die Ausarbeitung der Messungen und Sammlungen, sowie durch die Veröffentlichung der Ergebnisse liegt in den Händen der Mitglieder der Expedition und die einheitliche Redaktion des Ganzen bei Prof. Dr. von Drygalski. Der Arbeitsteilung während der Expedition entsprechend werden die geographischen Abschnitte von Prof. Dr. von Drygalski, die geologischen von Prof. Dr. E. Philippi†, die erdmagnetischen von Prof. Dr. Fr. Bidlingmaier† und Dr. K. Luyken, die bakteriologischen, hygienischen und sportlichen von Dr. H. Gazert, die zoologischen von Prof. Dr. E. Vanhöffen, die botanischen von Dr. E. Werth besorgt, während die Ausarbeitung der meteorologischen Ergebnisse an Stelle des auf Kerguelen verstorbenen Mitgliedes J. Enzensperger von Prof. Dr. W. Meinardus übernommen worden ist. Für den technischen Teil des ersten Bandes gelang es in dem Obermaschinisten der Expedition, A. Stehr†, die geeignete Kraft zu gewinnen, welcher sich darin auch der Beschreibung und Würdigung des vortrefflich bewährten Schiffes „Gauss“ unterzogen hat.

Bei Subskription auf das ganze Werk tritt ermäßigter Preis ein; einzelne Teile werden, soweit es der Vorrat gestattet, zu erhöhten Preisen abgegeben.

Bis jetzt erschienen folgende Hefte:

BAND I: TECHNIK und GEOGRAPHIE.

Heft 1: **Stehr, A., Der „Gauss“ und seine technischen Einrichtungen.** Mit Tafel I—XIII und 20 Abbildungen im Text. Preis Mark 18.—. Bei Subskription auf das ganze Werk Mark 15.—

Heft 2: **v. Drygalski, E., und J. Domke, Zeit- und Ortsbestimmungen, nebst Erörterungen über die Meer- und Eisfahrt des „Gauss“.** Mit Tafel XIV und 18 Abbildungen im Text. Preis Mark 28.—. Bei Subskription auf das ganze Werk Mark 23.—

Heft 3: **v. Drygalski, E.,** und **L. Haasemann: Die Schwerkraftsbestimmungen der Deutschen Südpolar-Expedition 1901—1903.** Mit 9 Abbildungen im Text. Preis Mark 15.—. Bei Subskription auf das ganze Werk Mark 12.80

BAND II: GEOGRAPHIE und GEOLOGIE.

Heft 1: **v. Drygalski, E., Der Gaussberg, seine Kartierung und seine Formen.** Mit Tafel I und 8 Abbildungen im Text. — **Philippi, E., Geologische Beschreibung des Gaussberges.** Mit Tafel II—VII und 2 Abbildungen im Text. — **Reinisch, R., Petrographische Beschreibung der Gaussberg-Gesteine.** Mit Tafel VIII und 9 Abbildungen im Text. Preis Mark 22.—. Bei Subskription auf das ganze Werk Mark 18.—

Heft 2: **Werth, E., Aufbau und Gestaltung von Kerguelen.** Mit Tafel IX—XIV und 33 Abbildungen im Text. — **Philippi, E., Geologische Beobachtungen auf Kerguelen.** Mit Tafel XV—XXII und 2 Abbildungen im Text. — **Reinisch, R., Petrographische Beschreibung der Kerguelen-Gesteine.** Mit 6 Abbildungen im Text. Preis Mark 48.—. Bei Subskription auf das ganze Werk Mark 40.—

Heft 3: **v. Drygalski, E., Geographie von Heard-Eiland.** Mit Tafel XXIII und 3 Abbildungen im Text. — **Philippi, E., Geologie der Heard-Insel.** — **Reinisch, R., Gesteine der Heard-Insel.** Mit 8 Abbildungen im Text. — **Vanhöffen, E., Tiere und Pflanzen der Heard-Insel.** — **Meinardus, W., Skizze des Klimas der Heard-Insel.** Mit 2 Abbildungen im Text. Preis Mark 9.60. Bei Subskription auf das ganze Werk Mark 8.—

Heft 4: **v. Drygalski, E., Geographie der Crozet-Inseln.** Mit Tafel XXIV und 1 Abbildung im Text. — **Philippi, E., Geologische Beobachtungen auf der Possession-Insel.** Mit Tafel XXV und XXVI. — **Reinisch, R., Gesteine von der Possession-Insel.** Mit Tafel XXVII. — **Vanhöffen, E., Die Tiere und Pflanzen von Possession-Eiland (Crozet-Gruppe).** Preis Mark 7.—. Bei Subskription auf das ganze Werk Mark 6.—

Heft 5: **v. Drygalski, E., Geographie von St. Paul und Neu Amsterdam.** Mit 3 Abbildungen im Text. — **Philippi, E., Geologie der Inseln St. Paul und Neu Amsterdam im Indischen Ozean.** Mit Tafel XXVIII—XXX und 2 Abbildungen im Text. — **Reinisch, R., Gesteine von St. Paul und Neu Amsterdam.** Mit 3 Abbildungen im Text. — **Vanhöffen, E., Tiere und Pflanzen von St. Paul und Neu Amsterdam.** Preis Mark 10.—. Bei Subskription auf das ganze Werk Mark 8.—

Heft 6: **Philippi, E., Die Grundproben der Deutschen Südpolar-Expedition.** Mit Tafel XXXI—XXXIII. Preis Mark 26.—. Bei Subskription auf das ganze Werk Mark 22.—

Heft 7: (Schlußheft dieses Bandes): **Philippi, E., (Nachlaß). Die Schuttführung der Eisberge und des Inlandeises.** Mit 6 Abbildungen im Text. — **Reinisch R., Erratische Gesteine (besonders aus Eisbergen).** — **Reinisch, R., Gesteine der Atlantischen Inseln. St. Helena, Ascension, São Vicente (Kapverden) und São Miguel (Azoren).** Mit Tafel XXXIV und XXXV und 2 Abbildungen im Text. Preis Mark 7.50. Bei Subskription auf das ganze Werk Mark 6.20

Preis des ganzen Bandes Mark 130.10. Bei Subskription auf das ganze Werk Mark 108.20

BAND III: METEOROLOGIE Band I.

1. Hälfte Heft 1: **Meinardus, W., Meteorologische Ergebnisse der Winterstation des „Gauss“ 1902—1903.** Mit Tafel I—XIII und 3 Abbildungen im Text. Preis Mark 22.—. Bei Subskription auf das ganze Werk Mark 18.—

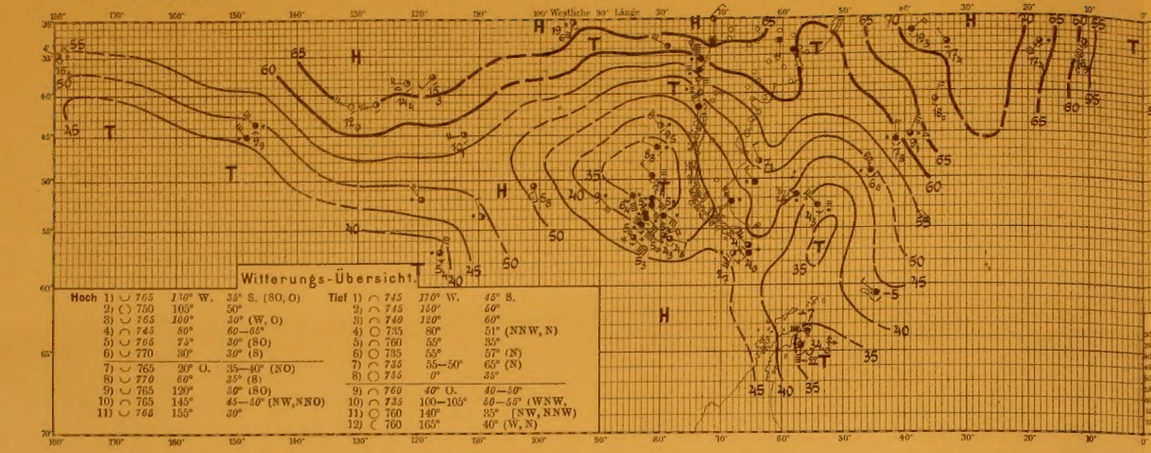
Heft 2: **Meinardus, W., Meteorologische Ergebnisse der Winterstation des „Gauss“ 1902—1903.** (Fortsetzung). Mit Tafel XIV—XVI und 2 Abbildungen im Text. Preis Mark 26.—. Bei Subskription auf das ganze Werk Mark 21.50

2. Hälfte Heft 1: **Meinardus, W., und L. Mecking, Das Beobachtungsmaterial der internationalen meteorologischen Kooperation und seine Verwertung nebst Erläuterungen zum meteorologischen Atlas. — Mecking, L., Die Luftdruckverhältnisse und ihre klimatischen Folgen in der atlantisch-pazifischen Zone südlich von 30° S. Br.** Preis Mark 15.—. Bei Subskription auf das ganze Werk Mark 12.50

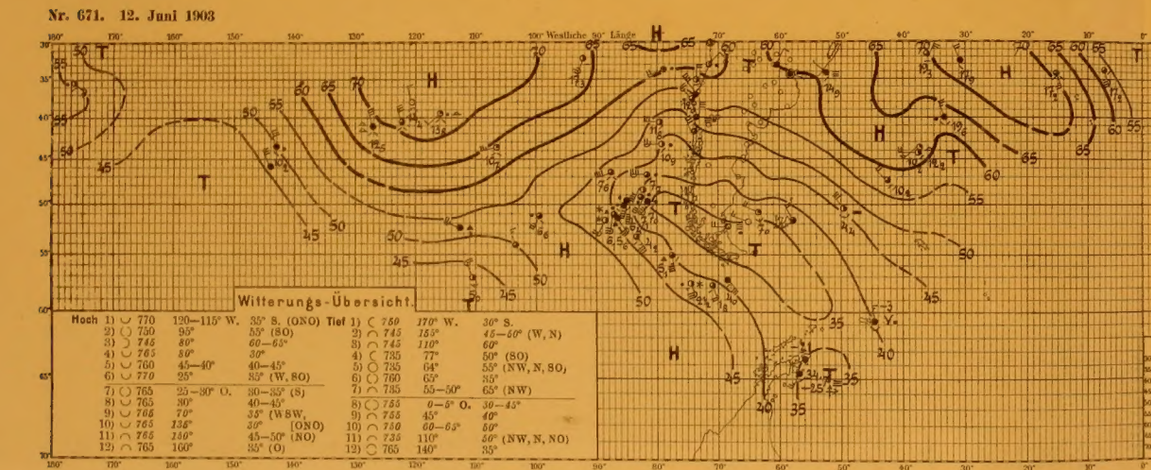
MARINE BIOLOG
WOO
LIB

28847

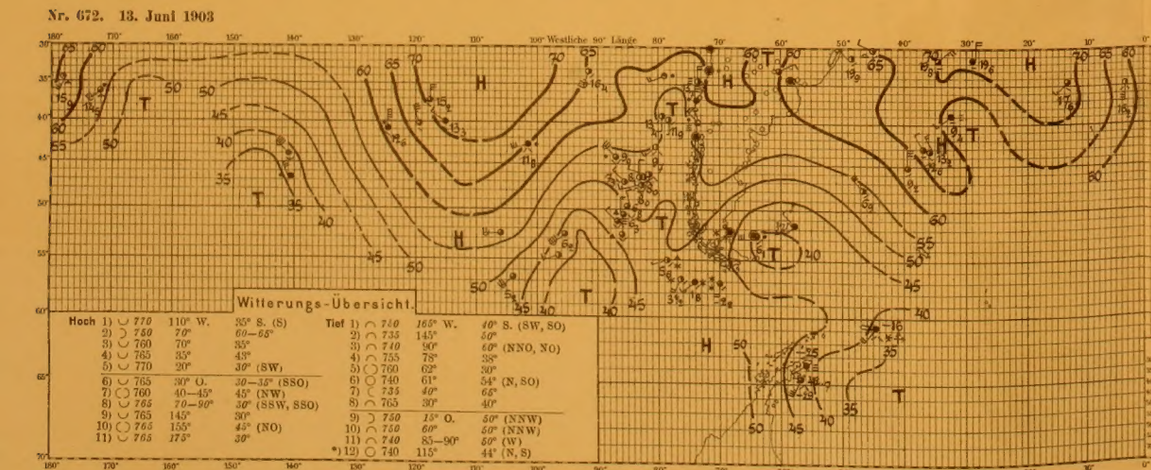
Nr. 670. 11. Juni 1903



Nr. 671. 12. Juni 1903



Nr. 672. 13. Juni 1903

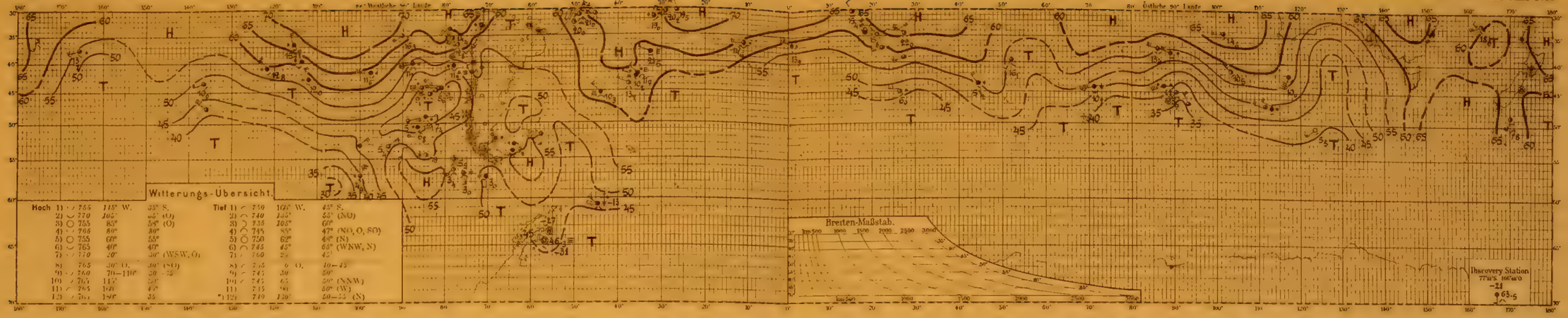


*) 13. Juni: Tief 13) ◡ 765 155° 30°
14) ◠ 755 180° 50° (NO)

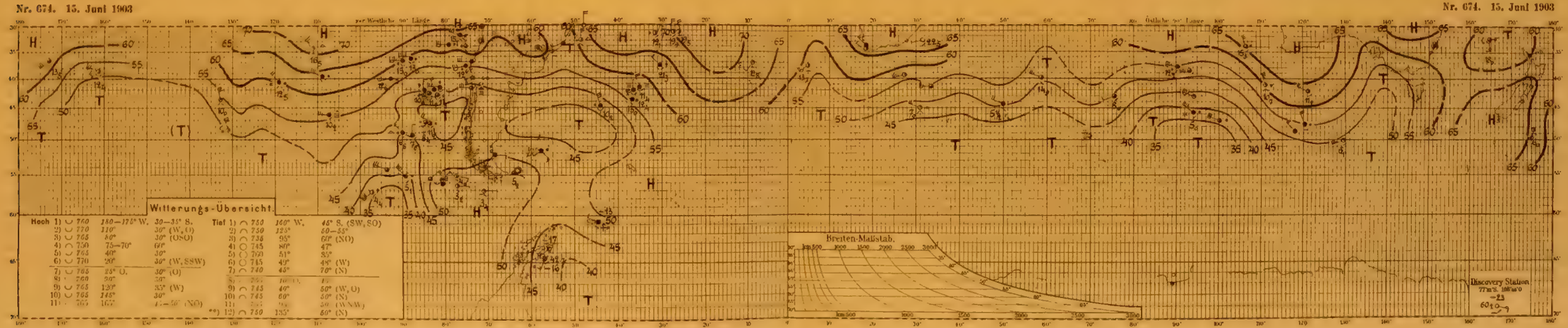
Tafel 225. *Nr. 673—675.*

14.—16. Juni 1903.

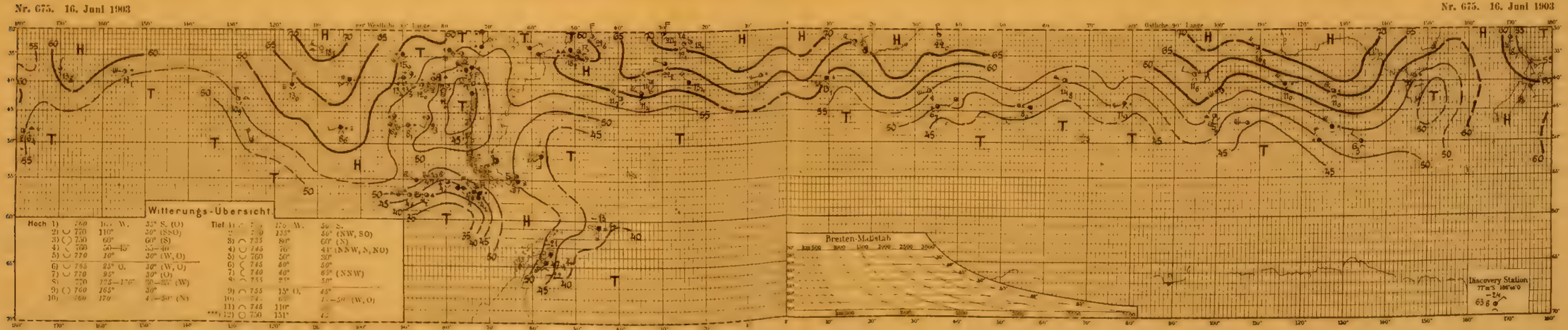
Nr. 673. 14. Juni 1903



Nr. 674. 15. Juni 1903



Nr. 675. 16. Juni 1903

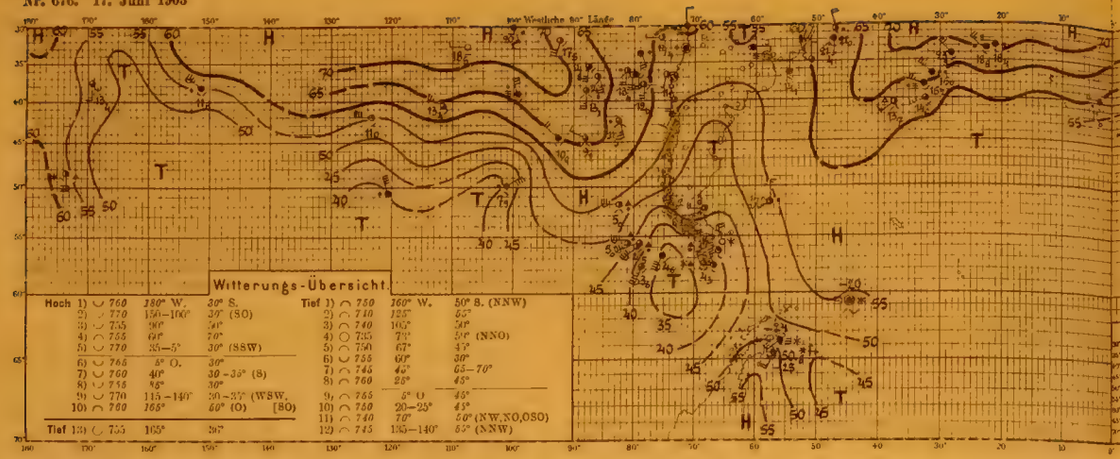


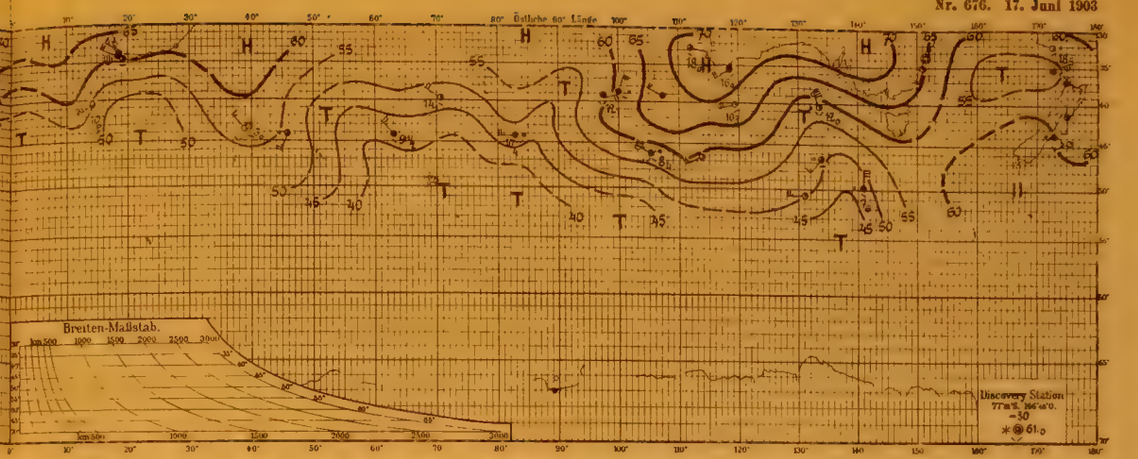
*) 14. Juni: Tief 13) ○ 760 166° 35°
14) ◠ 760 180° 60° (SW)
**) 15. Juni: Tief 13) ◡ 760 170° 30° (SW)
***) 16. Juni: Tief 13) ○ 755 180° 30°

Tafel 226. *Nr. 676—678.*

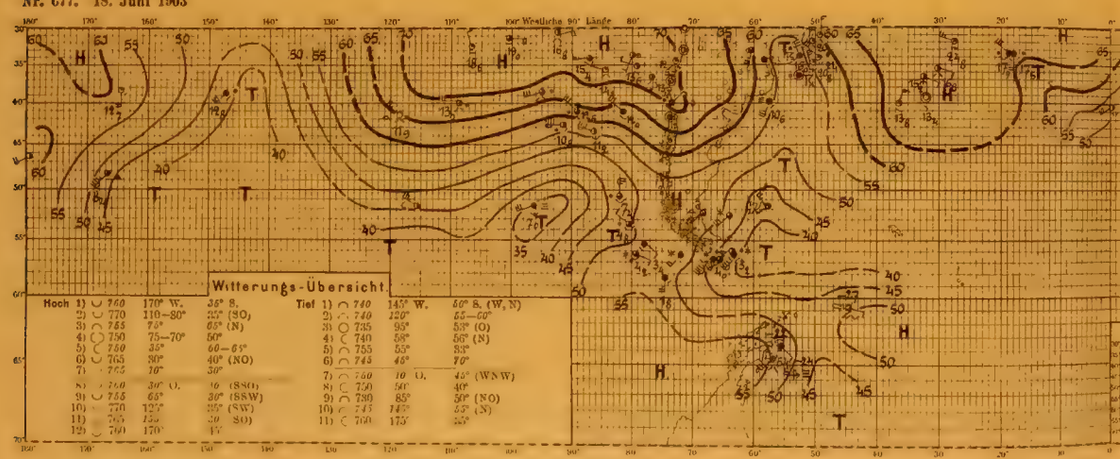
17.—19. Juni 1903.

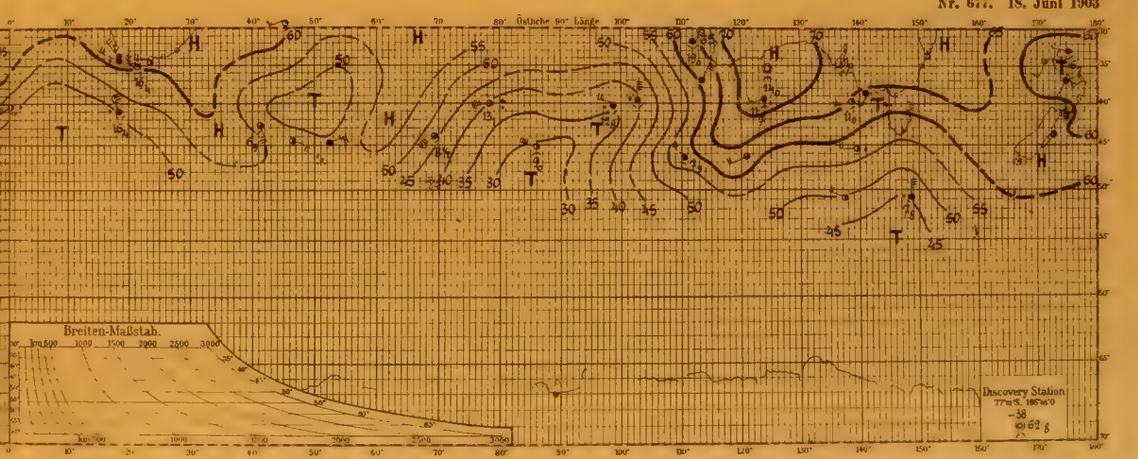
Nr. 676. 17. Juni 1903



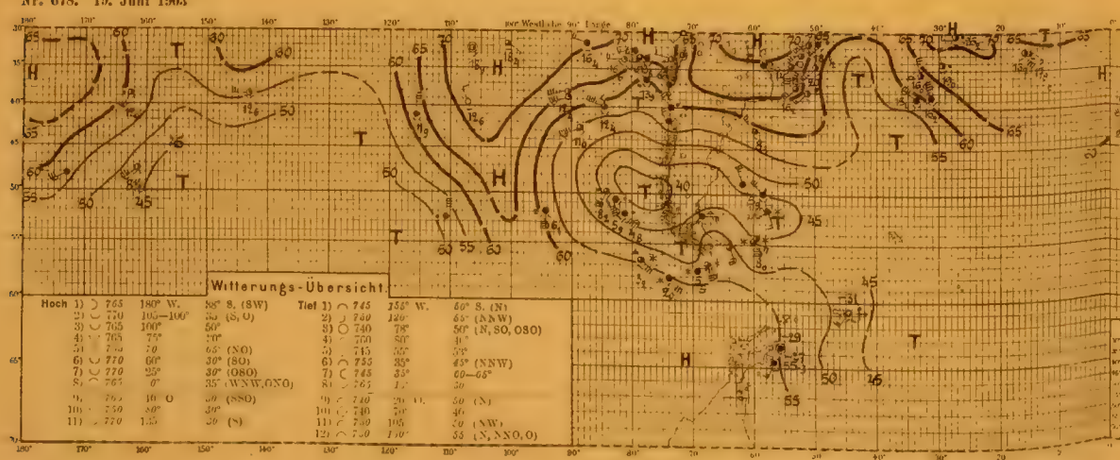


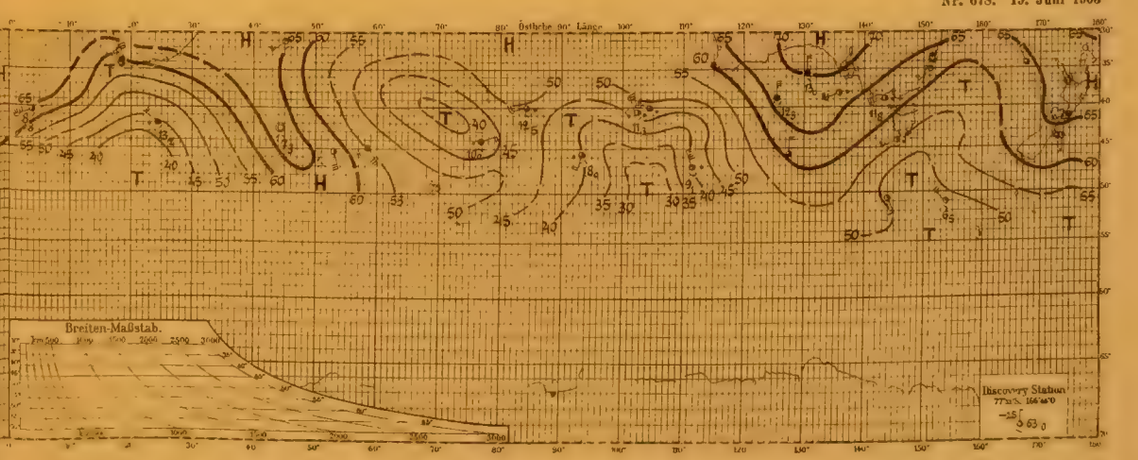
Nr. 677. 18. Juni 1903





Nr. 678. 19. Juni 1903



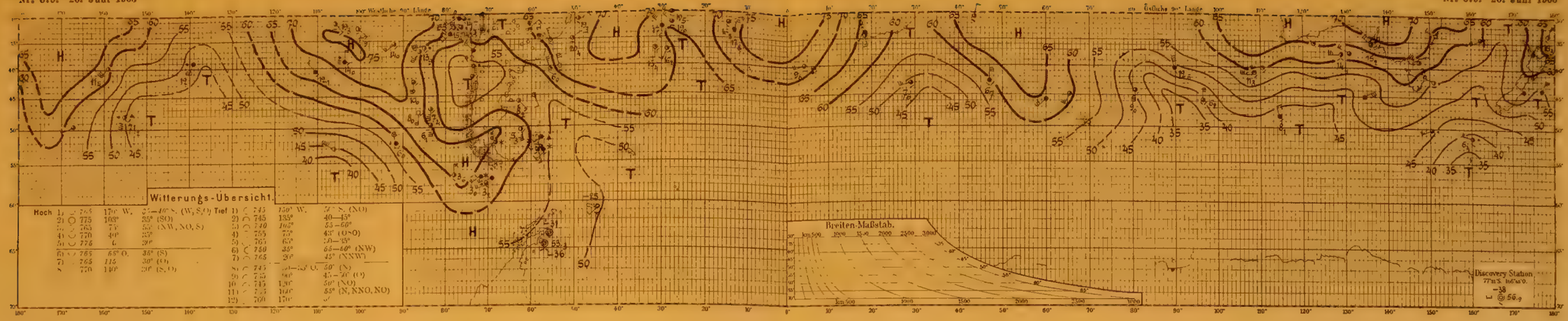


Tafel 227. Nr. 679—681.

20.—22. Juni 1903.

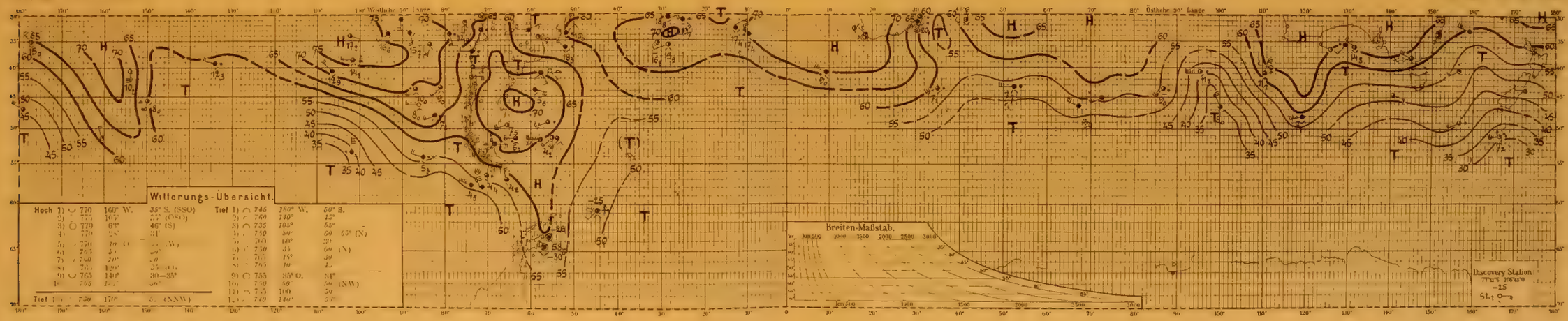
MARINE BIOLOGICAL LABORATORY
WOODS HOLE
LIBRARY
MASS.

Nr. 679. 20. Juni 1903



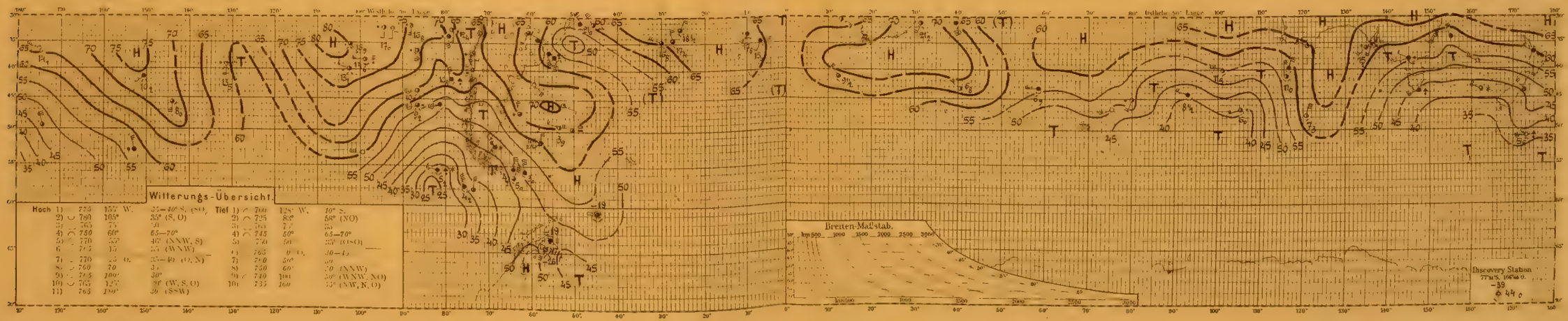
Nr. 679. 20. Juni 1903

Nr. 680. 21. Juni 1903



Nr. 680. 21. Juni 1903

Nr. 681. 22. Juni 1903



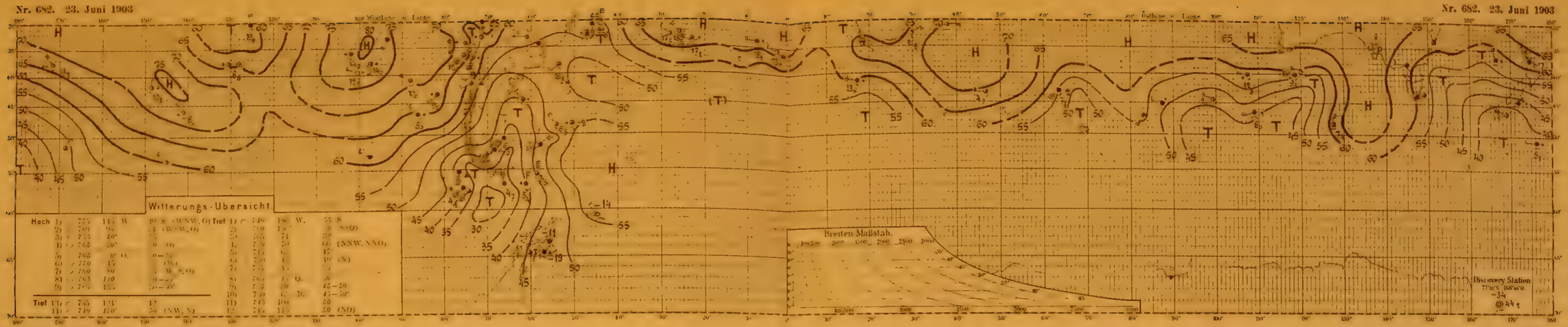
Nr. 681. 22. Juni 1903

Tafel 228. Nr. 682—684.

23.—25. Juni 1903.

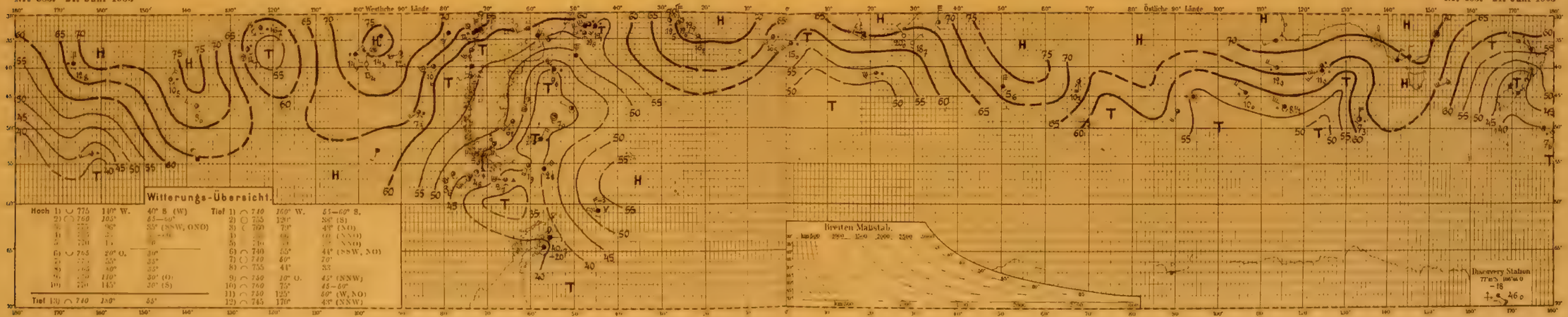
MARINE BIOLOGICAL LAB.
WOODS HOLE
LIBRARY

Nr. 682. 23. Juni 1903



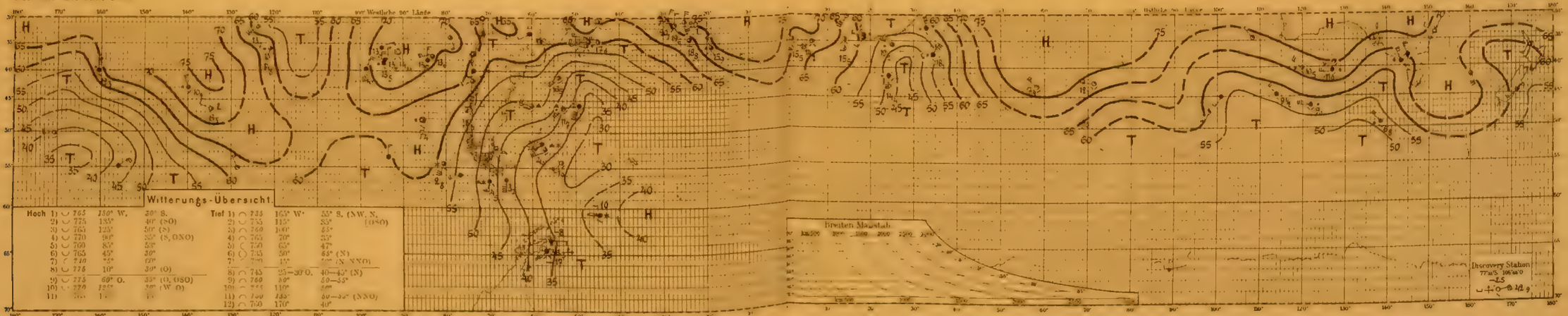
Nr. 682. 23. Juni 1903

Nr. 683. 24. Juni 1903



Nr. 683. 24. Juni 1903

Nr. 684. 25. Juni 1903

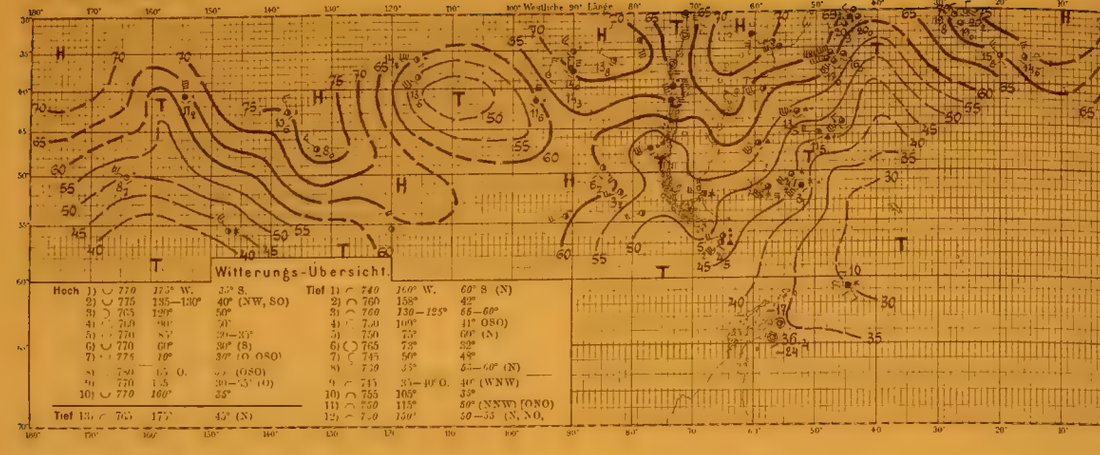


Nr. 684. 25. Juni 1903

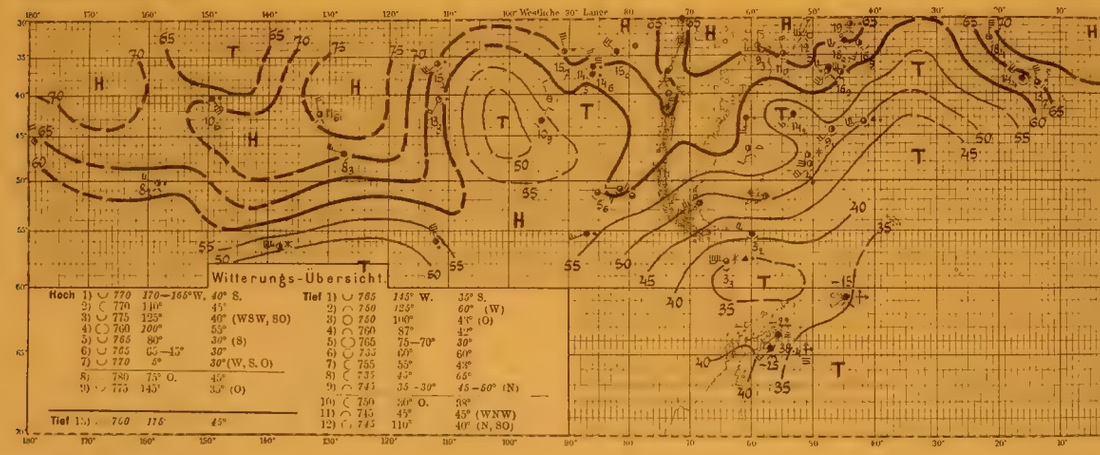
Tafel 229. Nr. 685—687.

26.—28. Juni 1903.

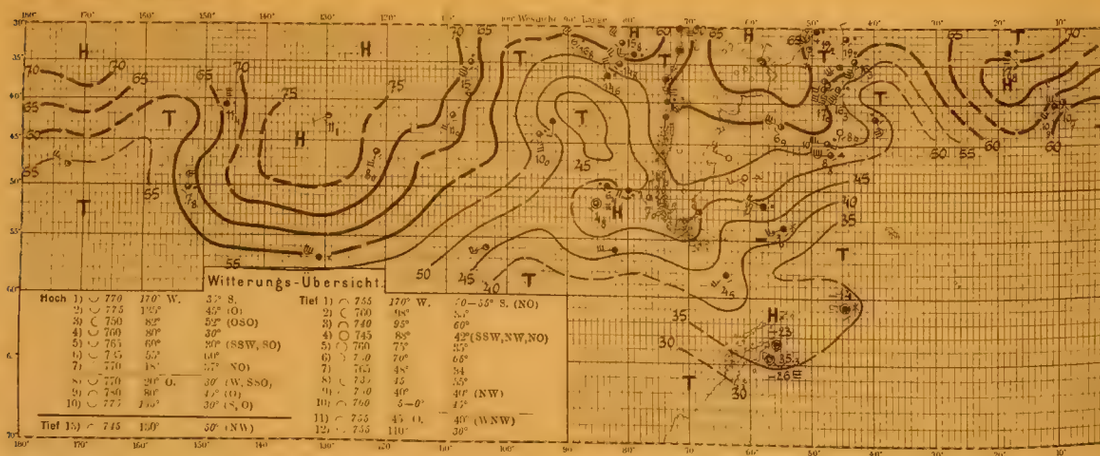
Nr. 685. 26. Juni 1903



Nr. 686. 27. Juni 1903



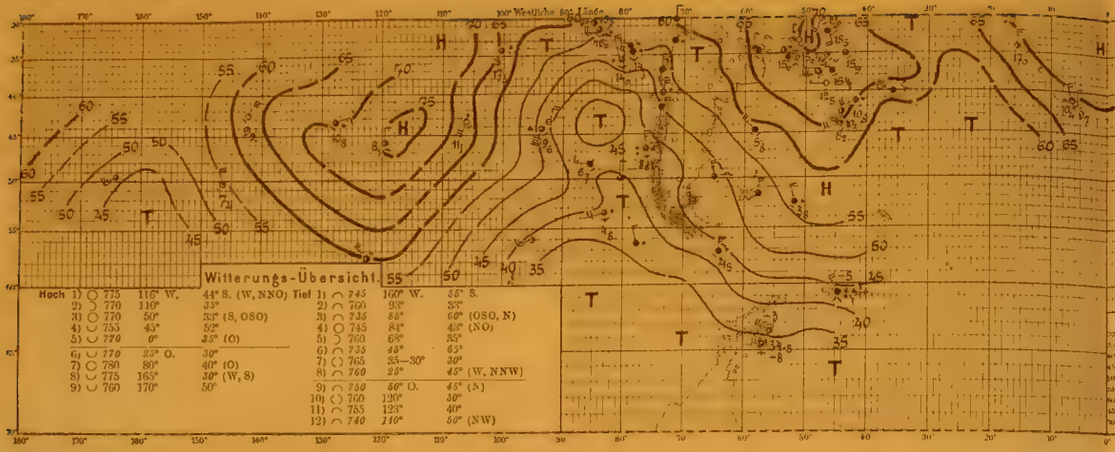
Nr. 687. 28. Juni 1903

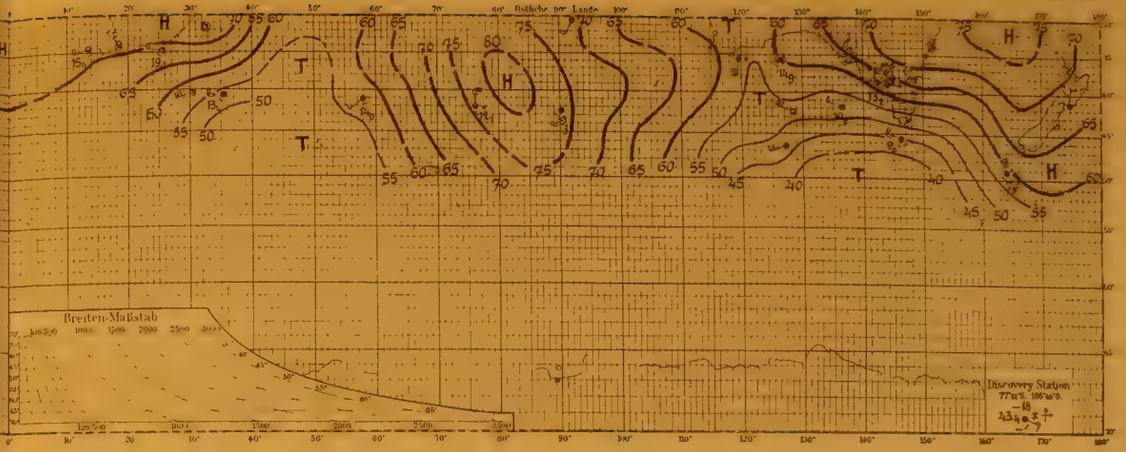


Tafel 230. *Nr. 688—690.*

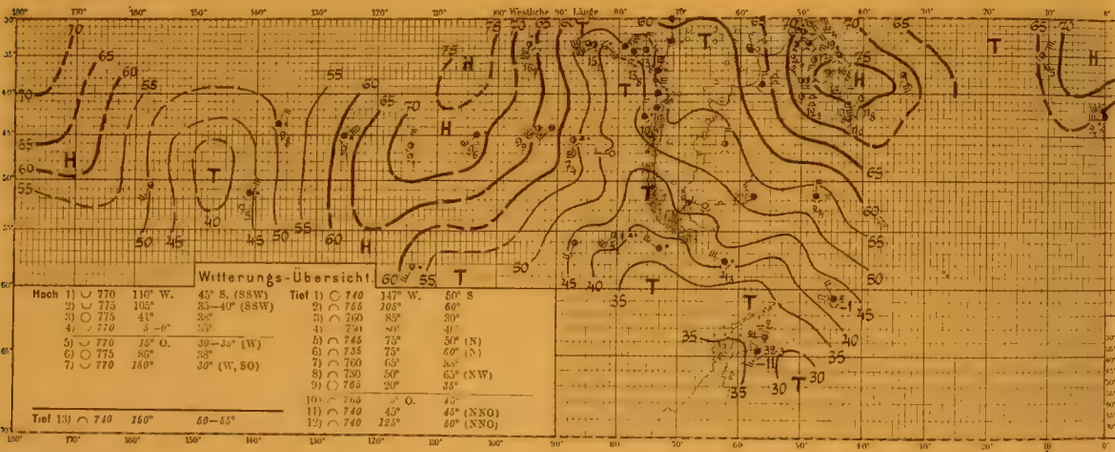
29. Juni—1. Juli 1903.

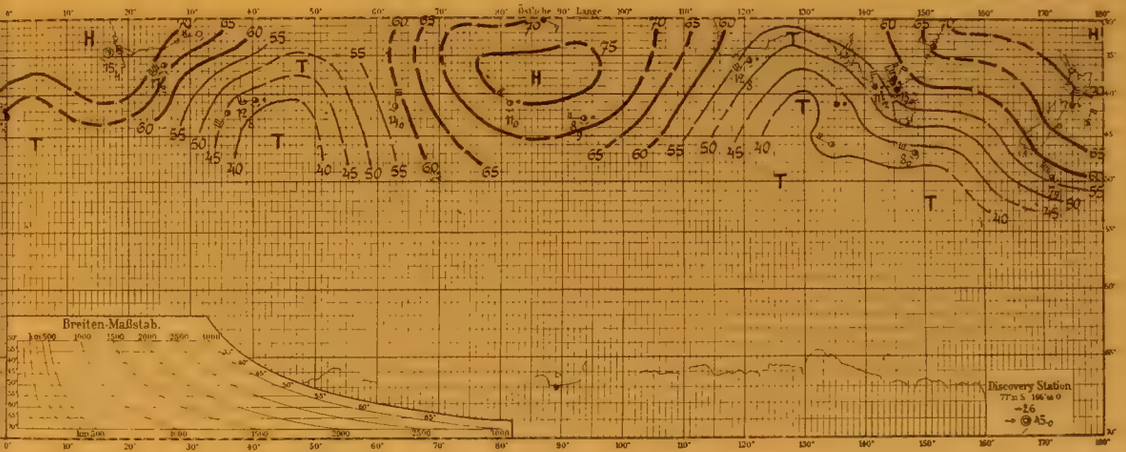
Nr. 688. 29. Juni 1903



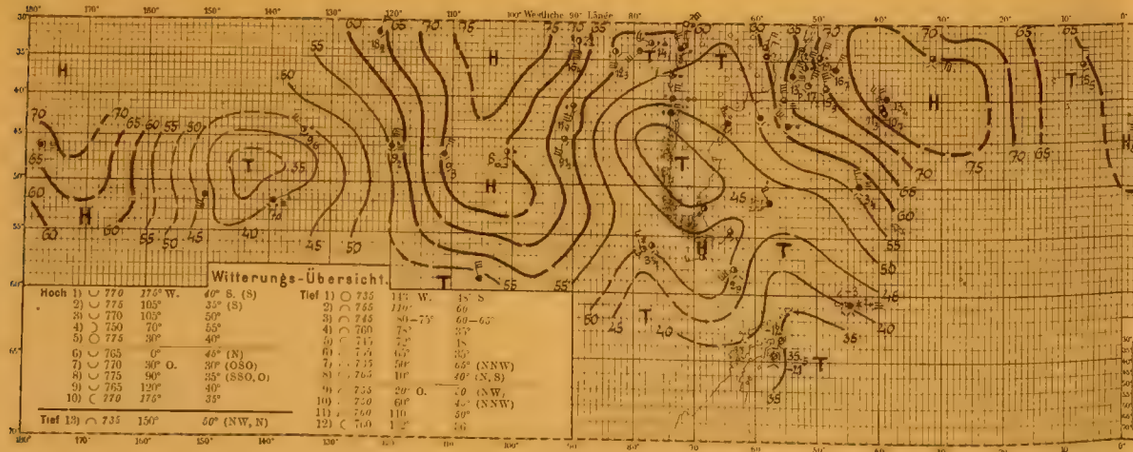


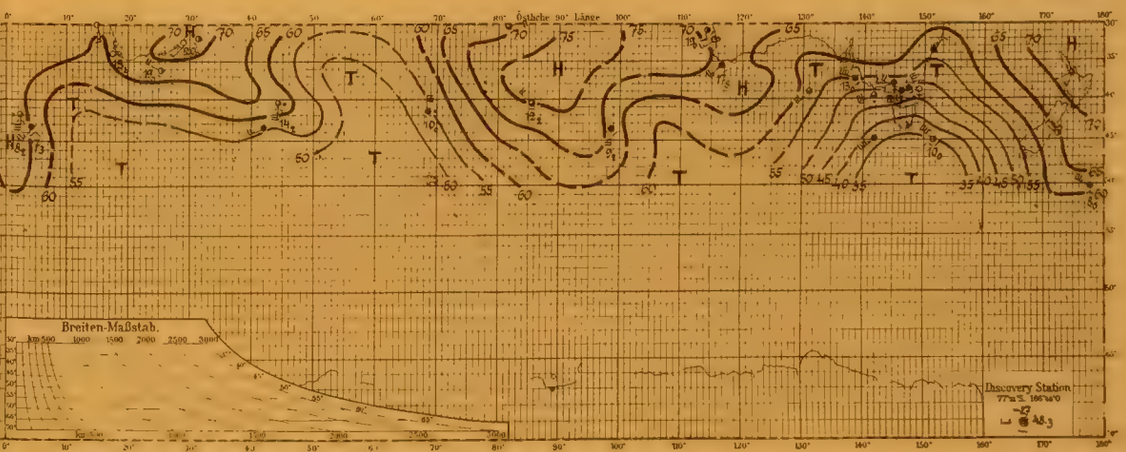
Nr. 689. 30. Juni 1903





Nr. 690. 1. Juli 1903



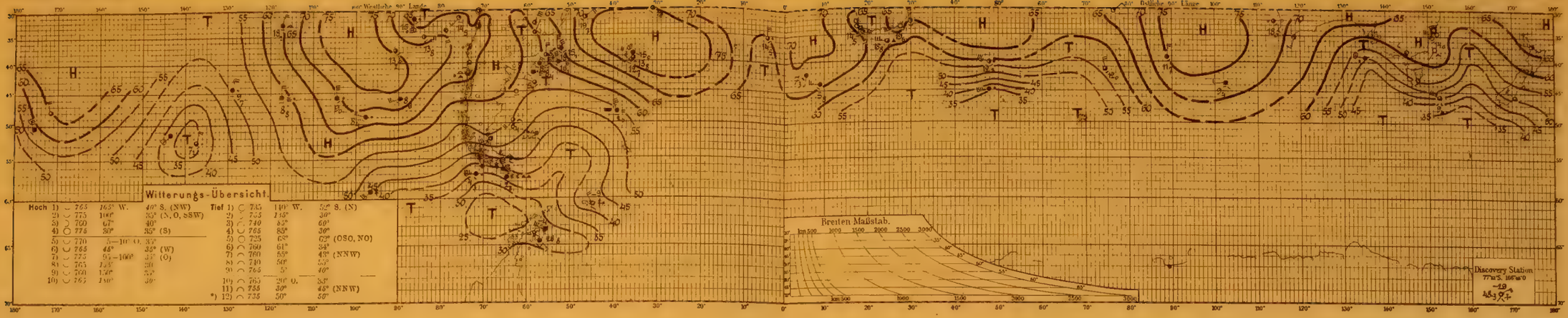


Tafel 231. *Nr. 691—693.*

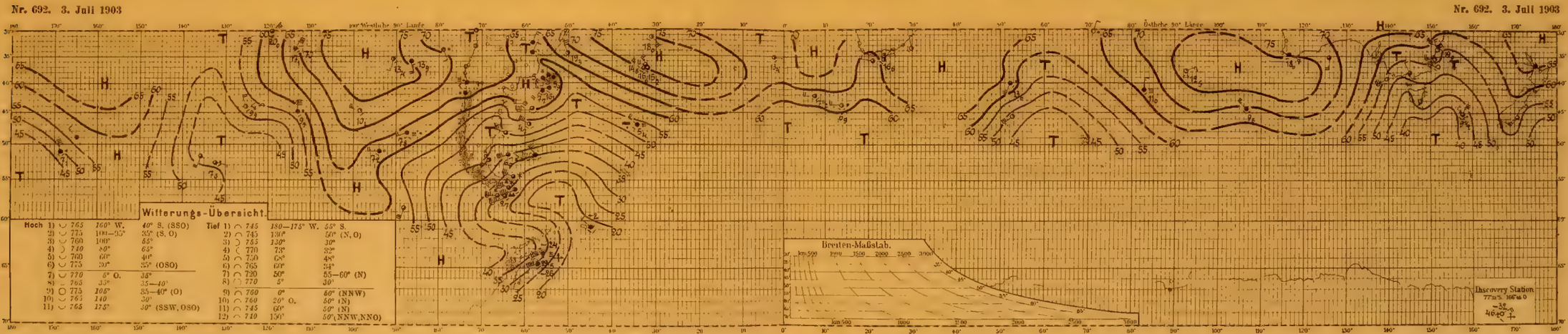
2.—4. Juli 1903.

MARINE BIOLOGICAL LABORATORY
WOODS HOLE
LIBRARY
MASS.

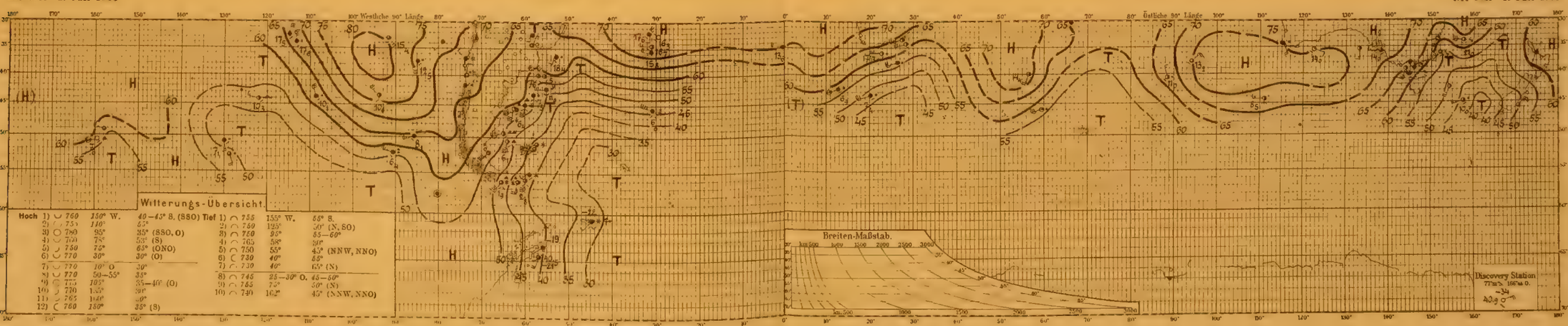
Nr. 691. 2. Juli 1903



Nr. 692. 3. Juli 1903



Nr. 693. 4. Juli 1903

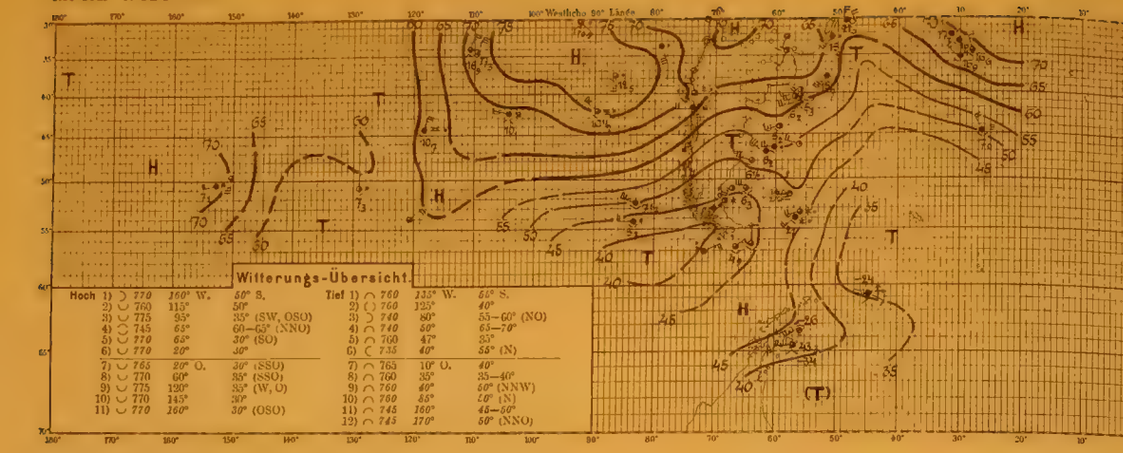


*) 2. Juli: Tief 13) 750 70° 50° (N)
14) 740 140° 50° (NNW)
15) 735 160° 50° (N)

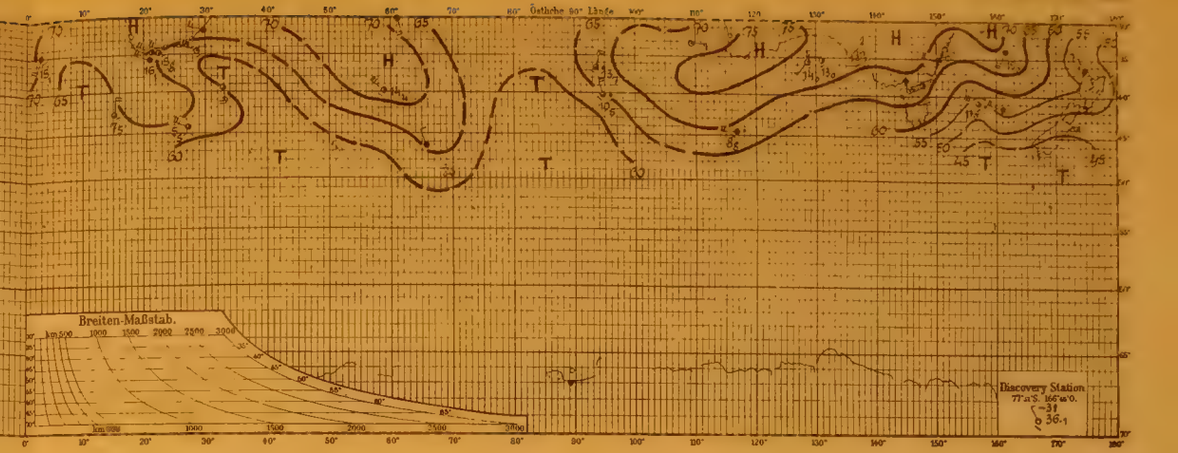
Tafel 232. *Nr. 694—696.*

5.—7. Juli 1903.

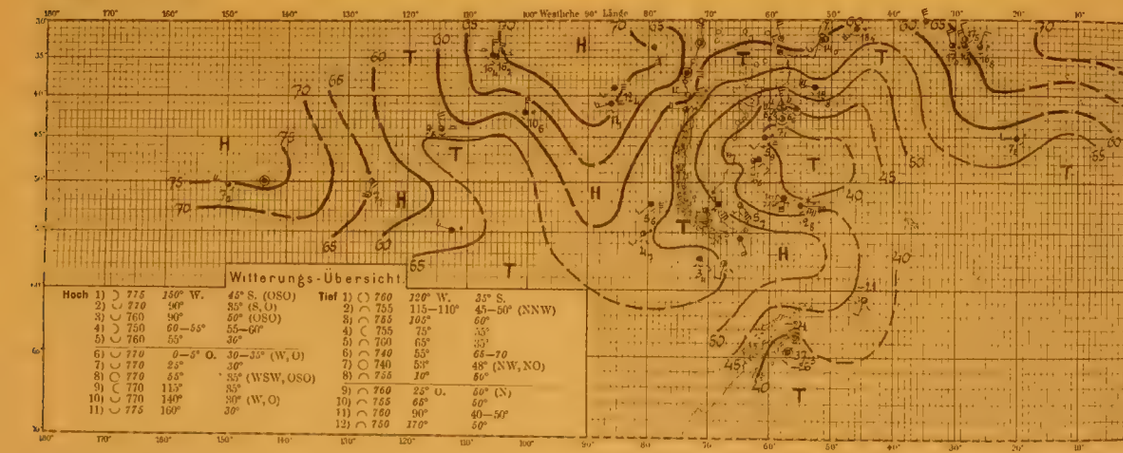
Nr. 694. 5. Juli 1903



Nr. 694. 5. Juli 1903

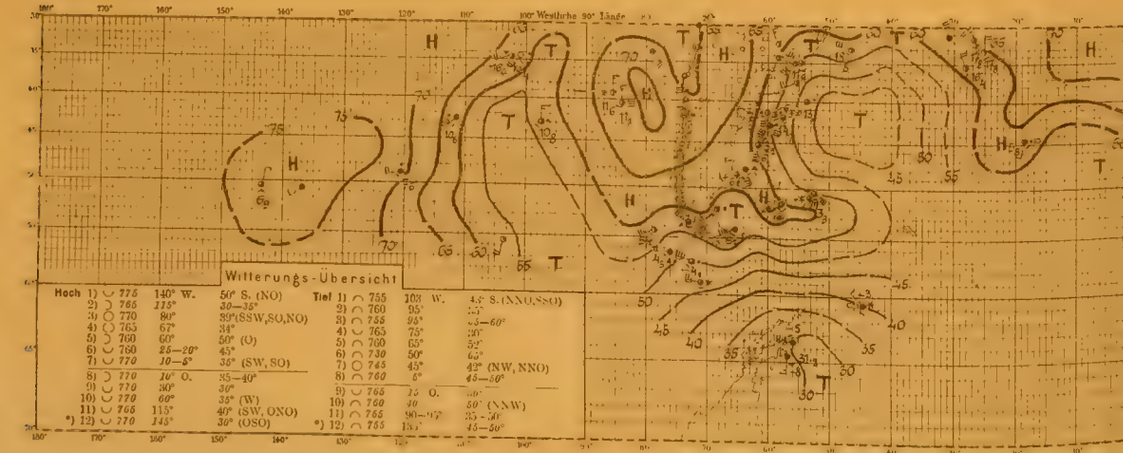


Nr. 695. 6. Juli 1903

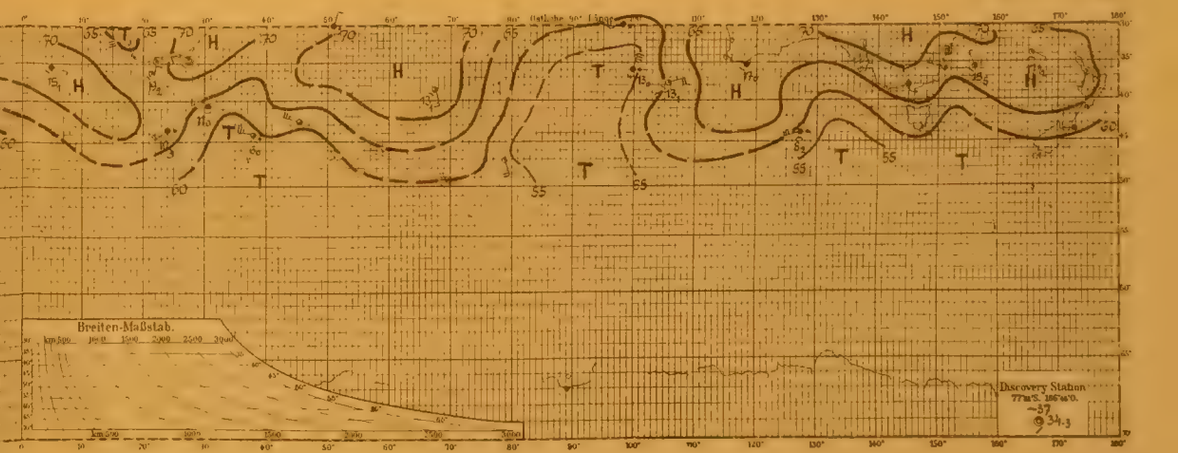


Nr. 695. 6. Juli 1903

Nr. 696. 7. Juli 1903



Nr. 696. 7. Juli 1903

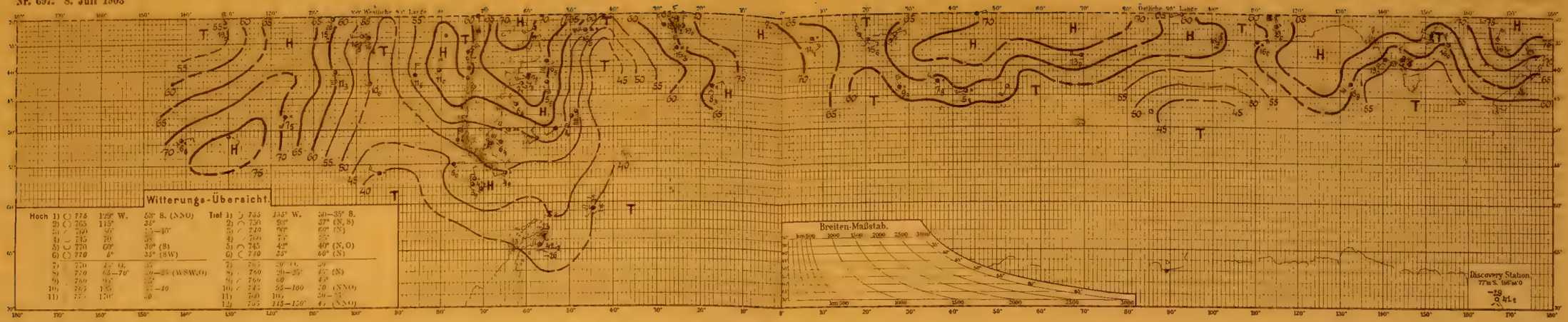


*) 7. Juli: Hoch 13) ◯ 765 165° 35—40° Tief 13) ◠ 760 155° 50°

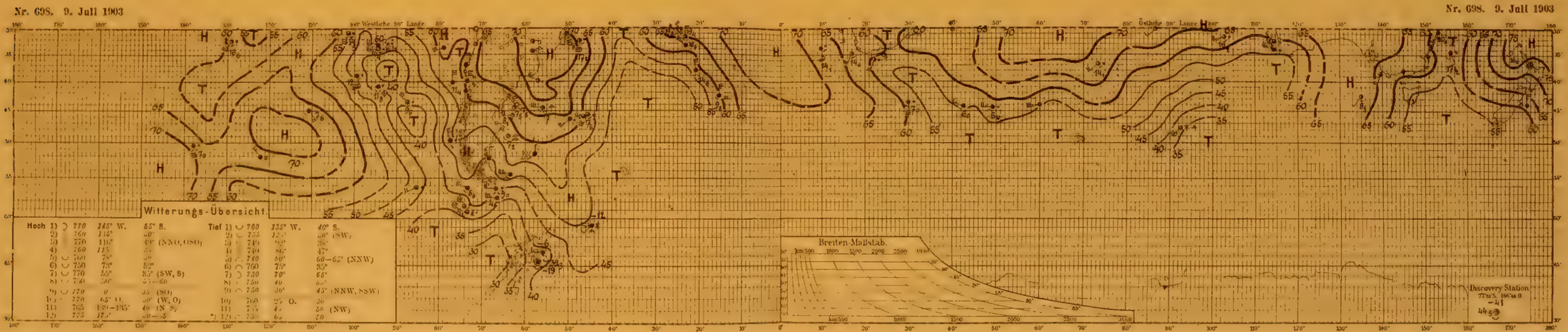
Tafel 233. *Nr. 697—699.*

8.—10. Juli 1903.

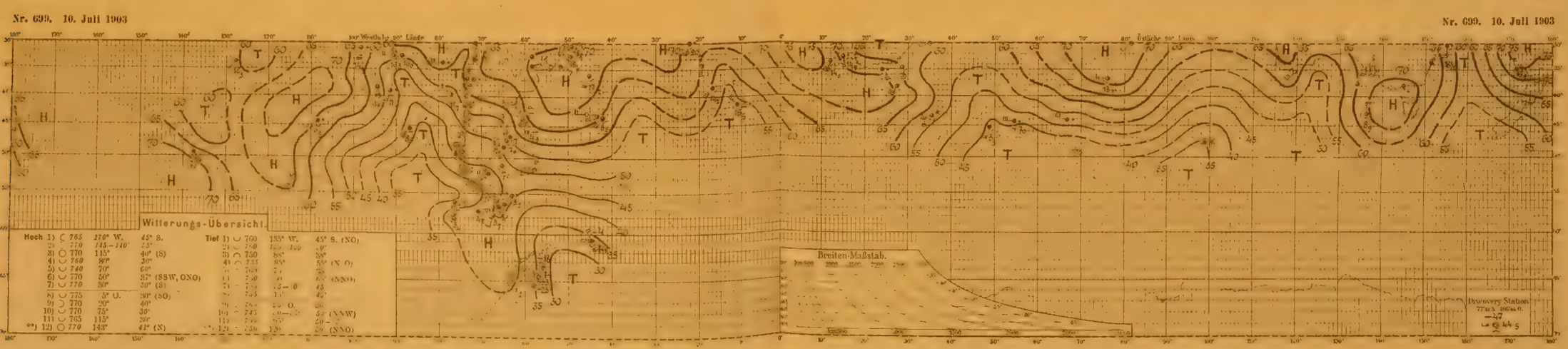
Nr. 697. 8. Juli 1903



Nr. 698. 9. Juli 1903



Nr. 699. 10. Juli 1903



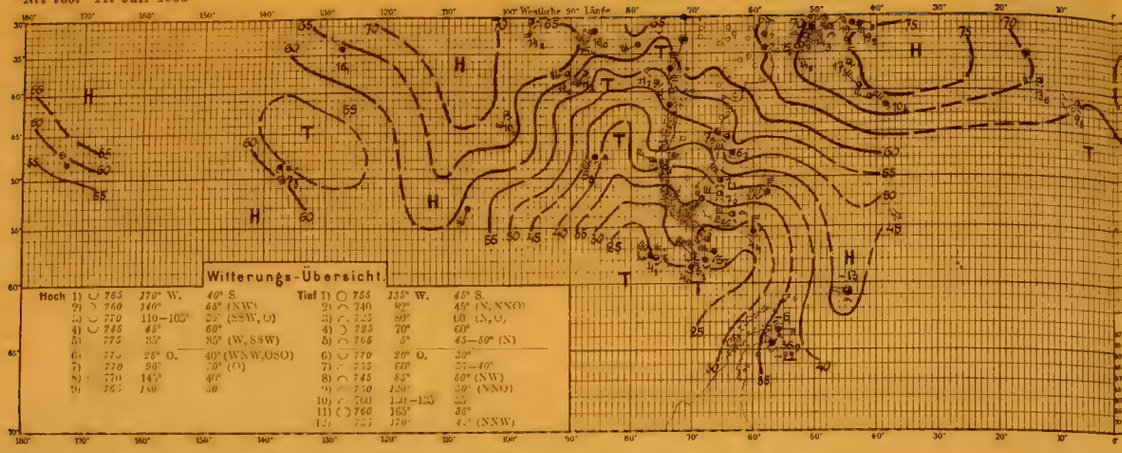
°) 9. Juli: Tief 13) ○ 755 100° 50° (NO
14) ○ 755 115° 55—40
15) ○ 765 155° 4 (N)
16) ○ 760 157° 82°

°°) 10. Juli: Hoch 13) ○ 775 178 30° (SO) Tief 13) ○ 760 160° 35°
14) ○ 755 160—165° 45—50° (NNW)

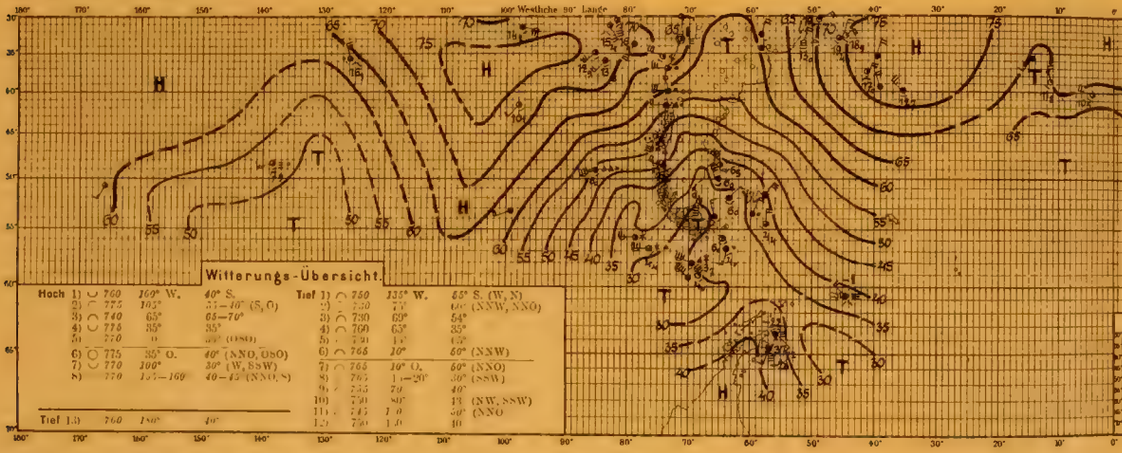
Tafel 234. Nr. 700—702.

11.—13. Juli 1903.

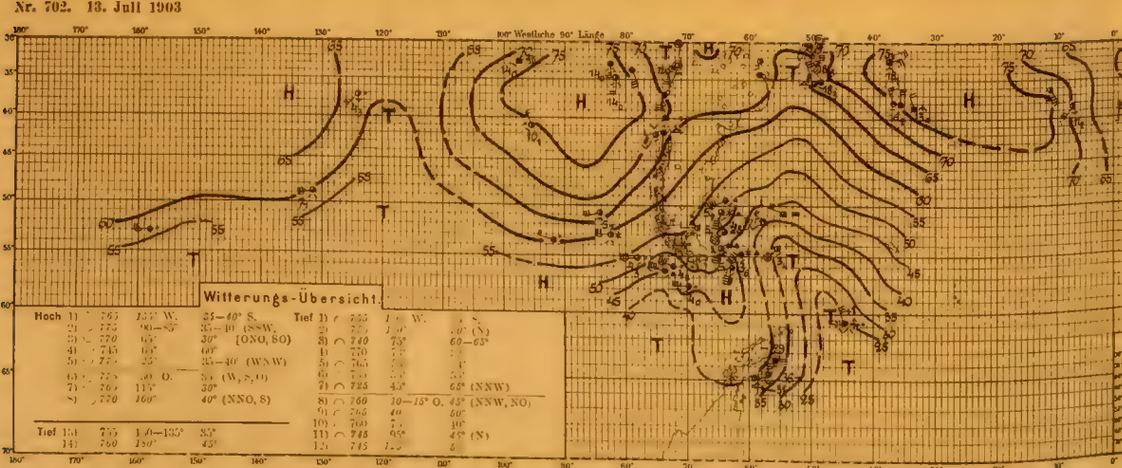
Nr. 700. 11. Juli 1903



Nr. 701. 12. Juli 1903



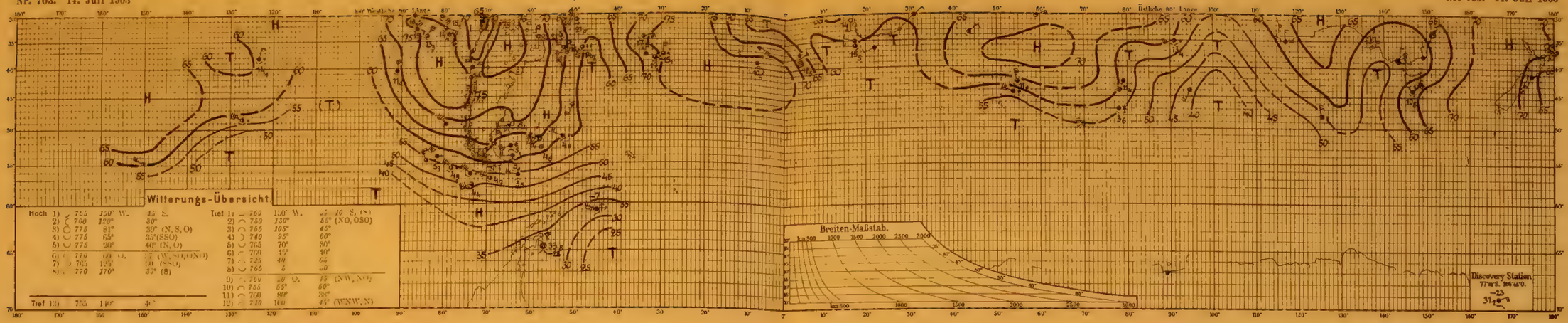
Nr. 702. 13. Juli 1903



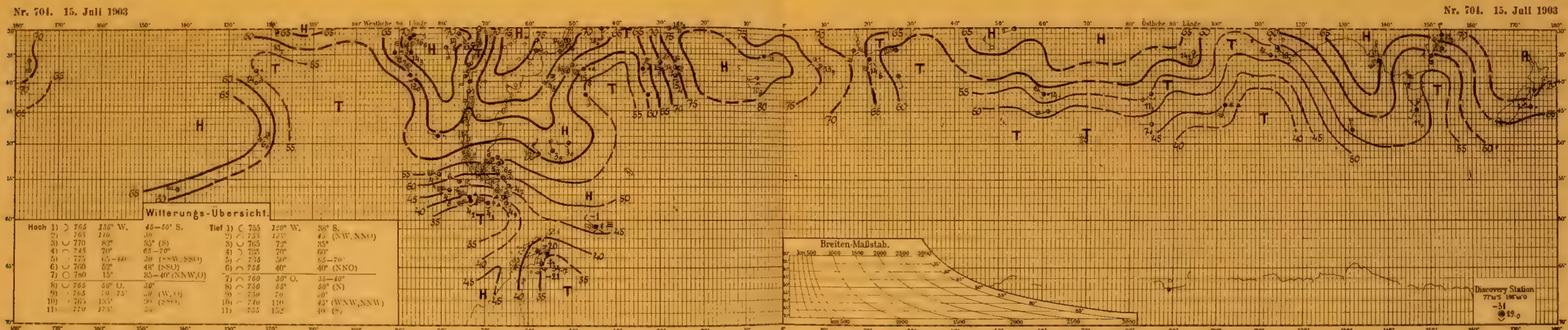
Tafel 235. Nr. 703—705.

14.—16. Juli 1903.

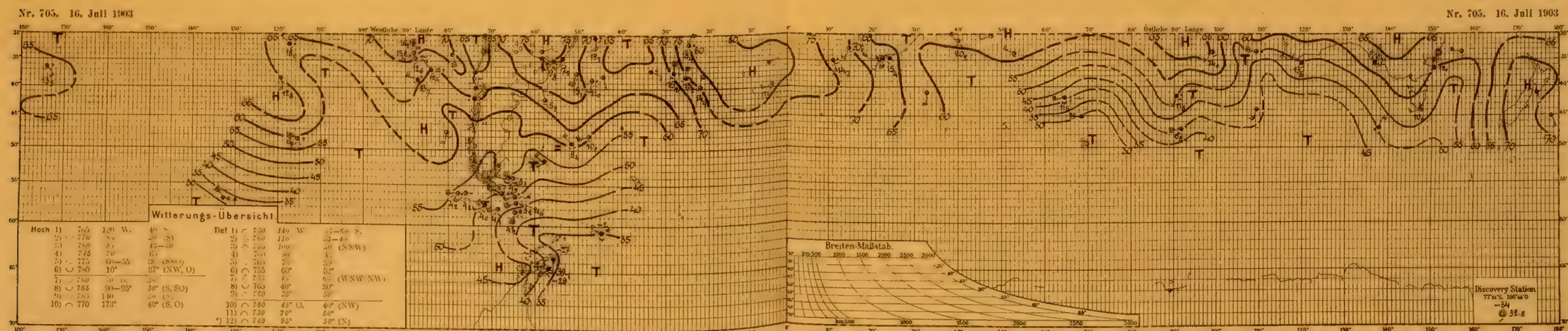
Nr. 703. 14. Juli 1903



Nr. 704. 15. Juli 1903



Nr. 705. 16. Juli 1903

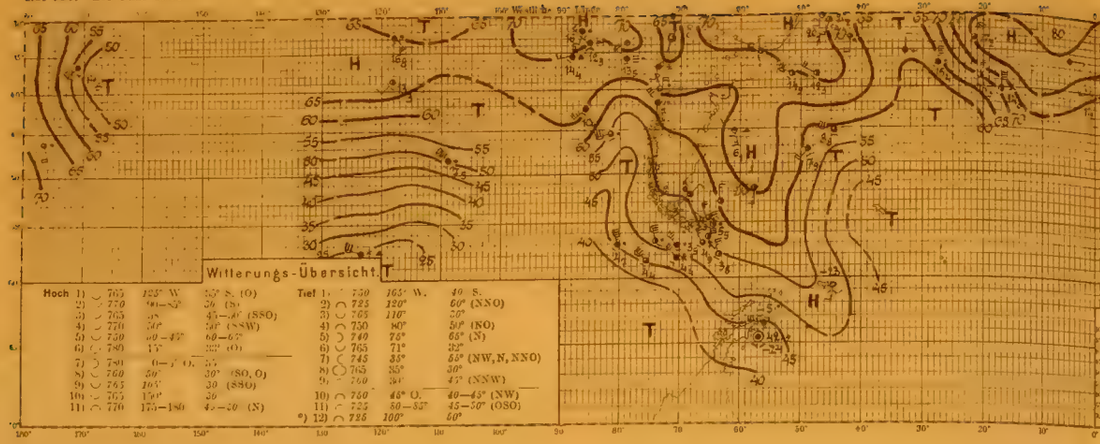


*) 16. Juli: Tief 13) ⌒ 745 120° 60° (NW)
14) ⌒ 755 155° 40°

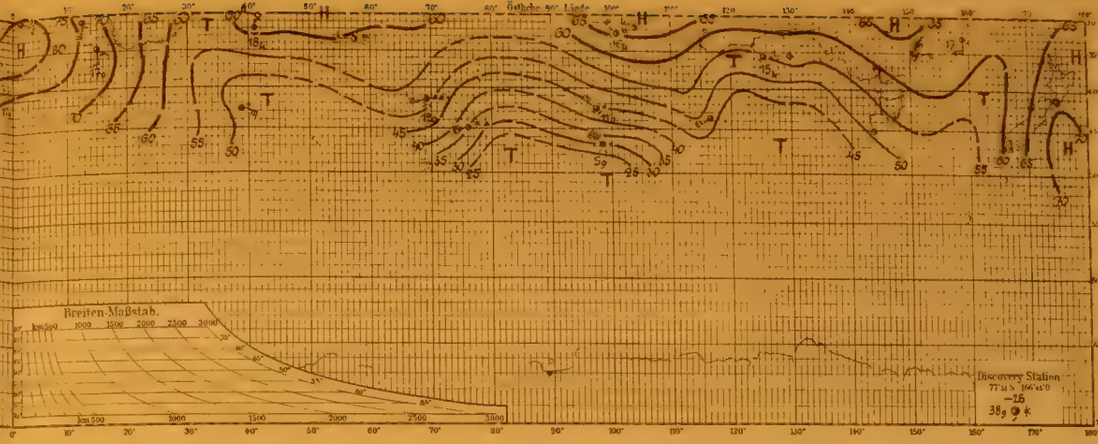
Tafel 236. Nr. 706—708.

17.—19. Juli 1903.

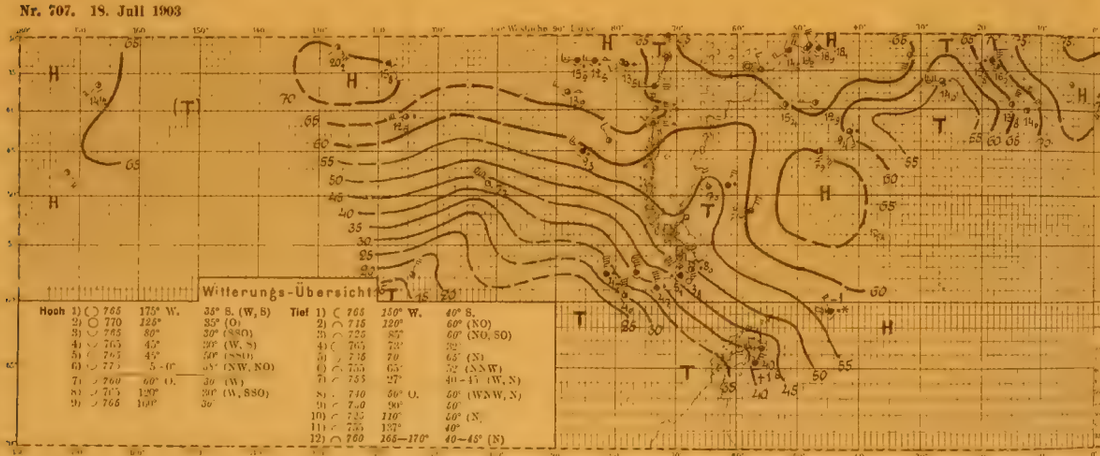
Nr. 706. 17. Juli 1903



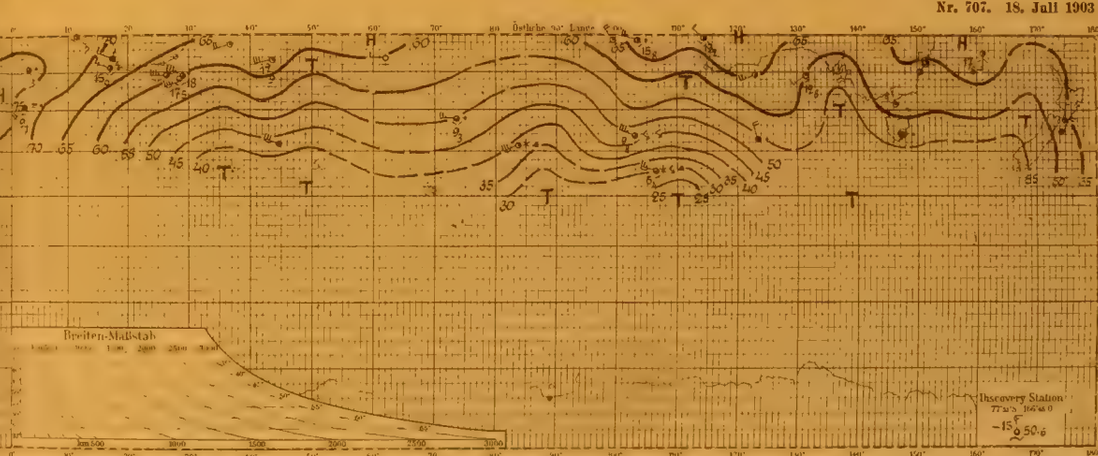
Nr. 706. 17. Juli 1903



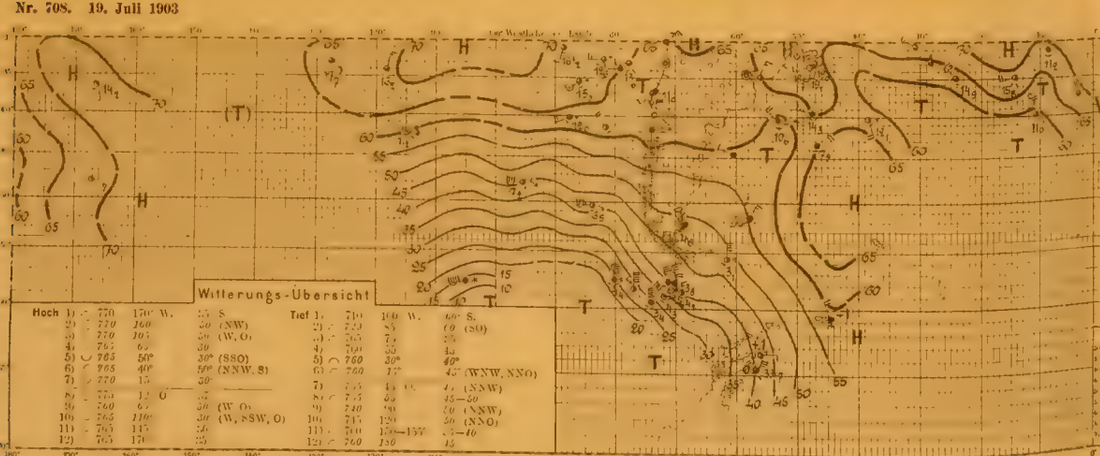
Nr. 707. 18. Juli 1903



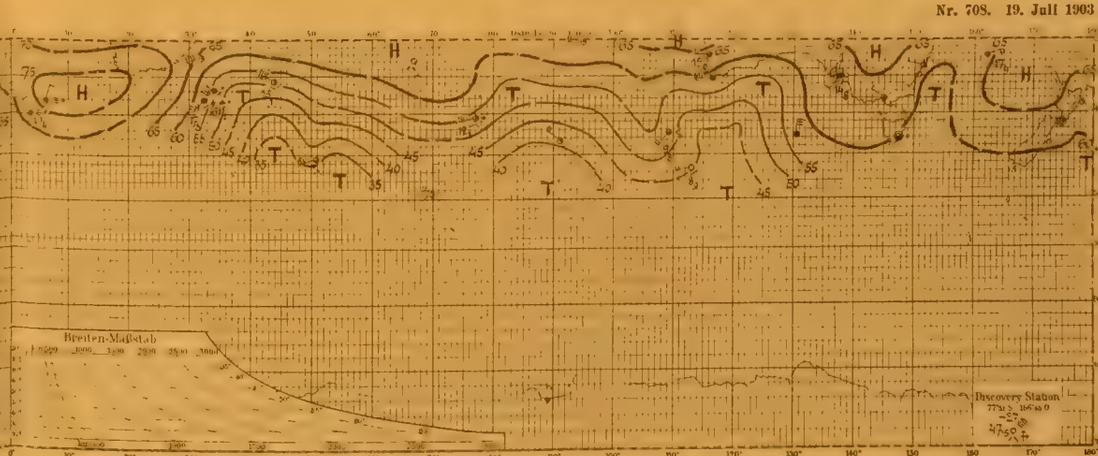
Nr. 707. 18. Juli 1903



Nr. 708. 19. Juli 1903



Nr. 708. 19. Juli 1903

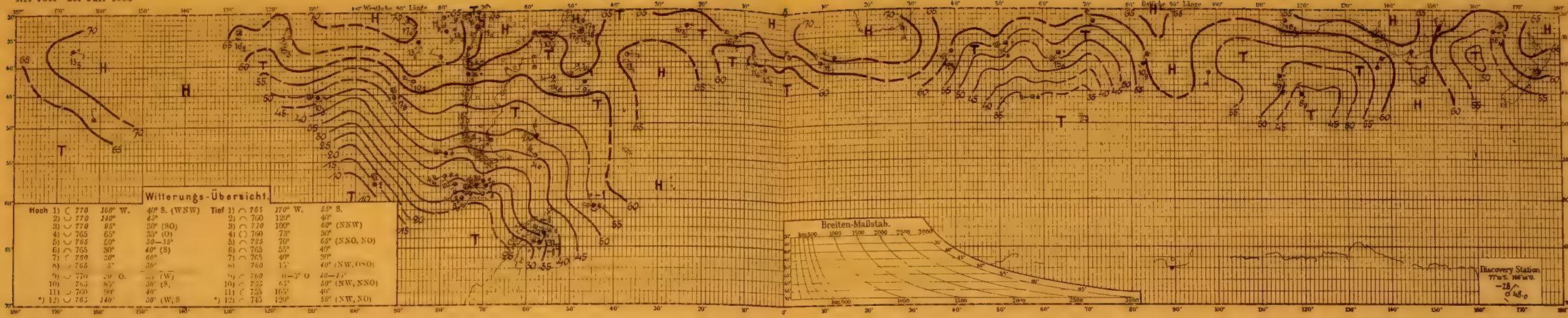


*) 17. Juli: Tief 13) ◠ 745 125—130° 45—50° (NNW, O)
14) ◠ 760 160—165° 40° (NNO)

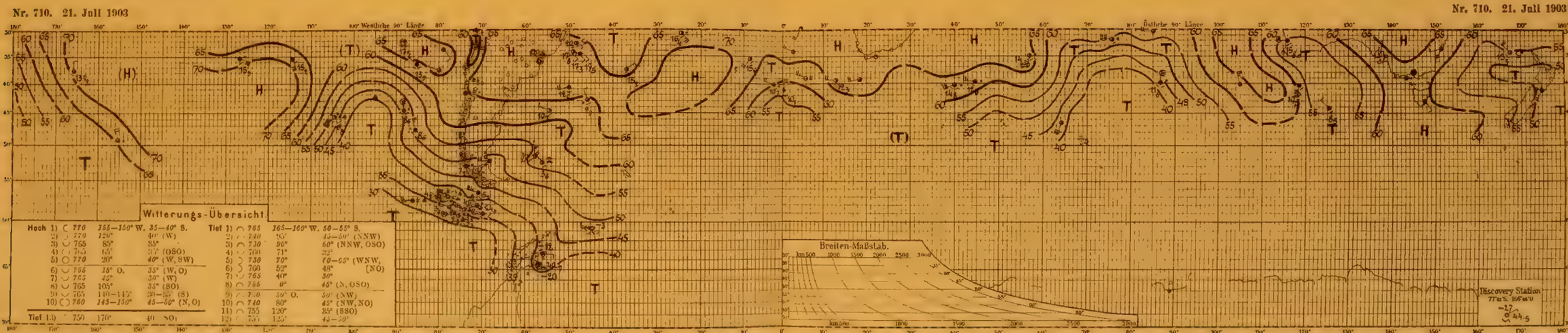
Tafel 237. Nr. 709—711.

20.—22. Juli 1903.

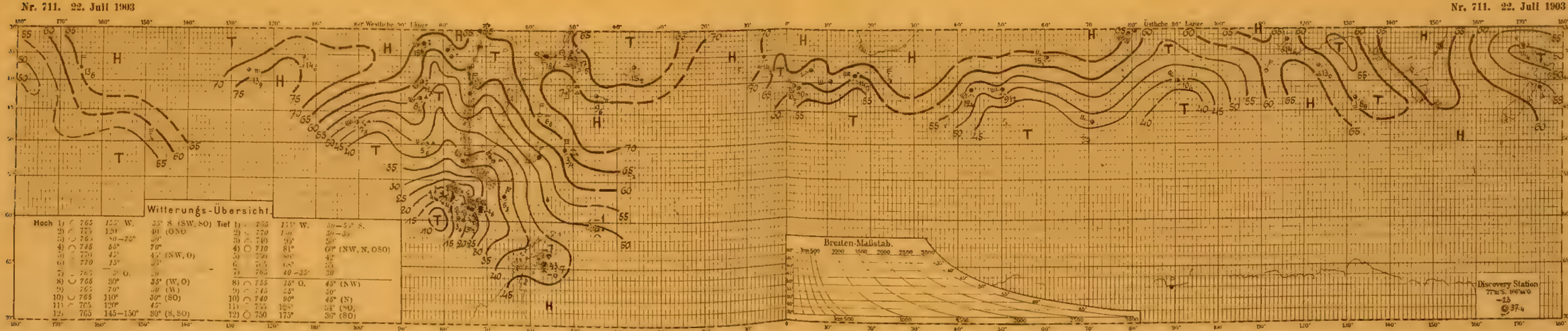
Nr. 709. 20. Juli 1903



Nr. 710. 21. Juli 1903

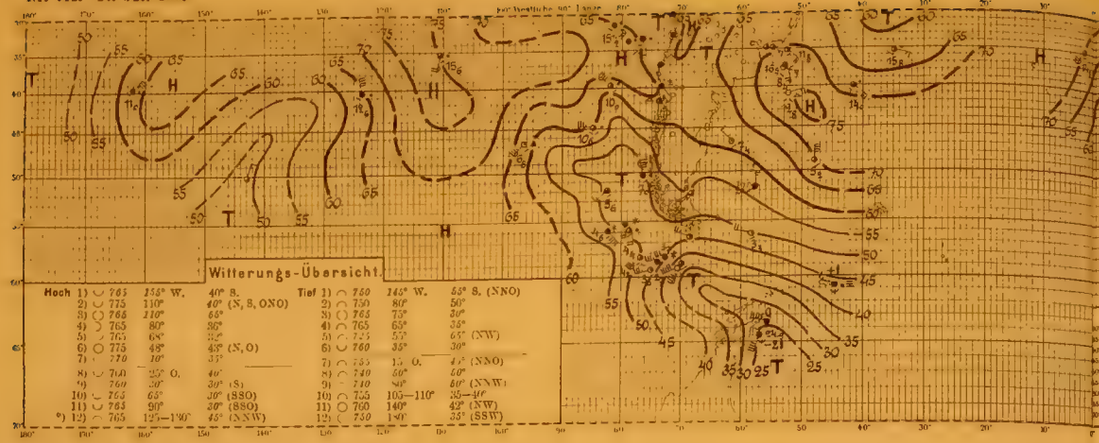


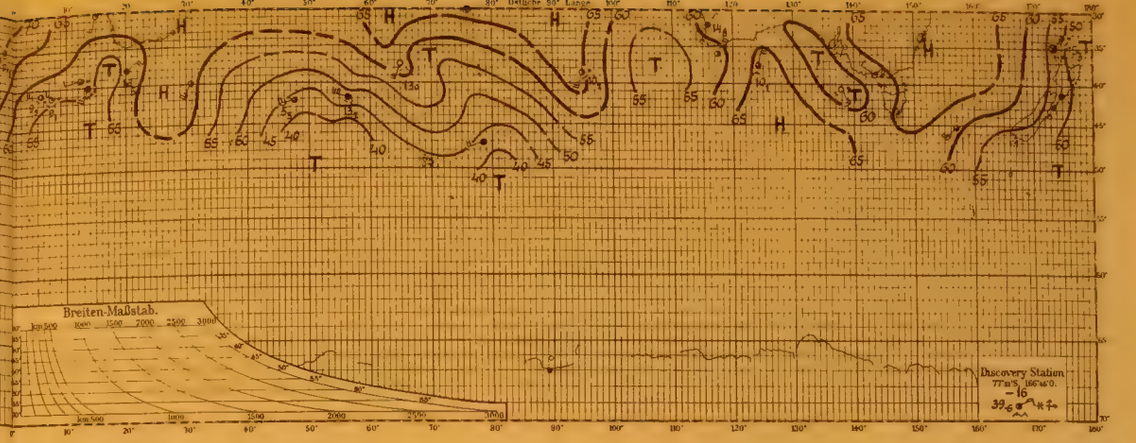
Nr. 711. 22. Juli 1903



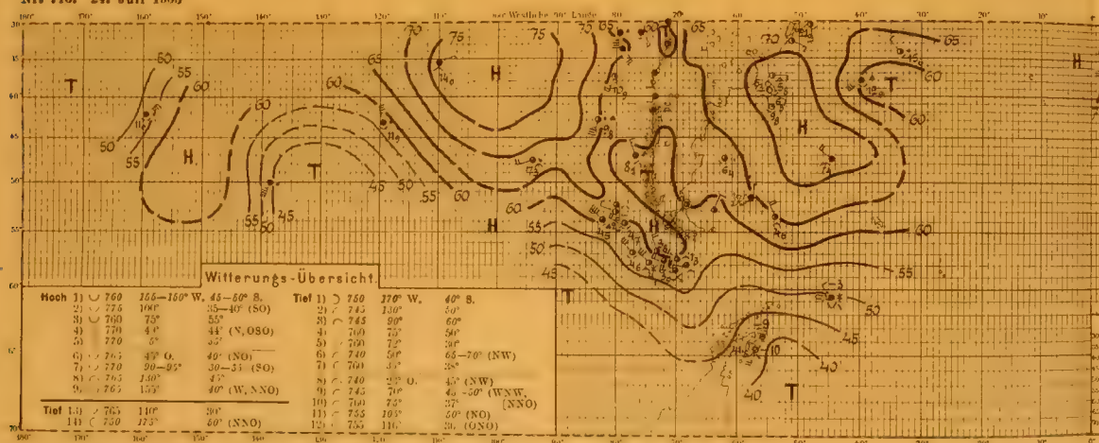
*) 20. Juli: Hoch 13) ◯ 760 145° 45—50°
14) ⌒ 765 175—180° 30—35°
Tief 13) ◯ 750 160° 30° (SO)

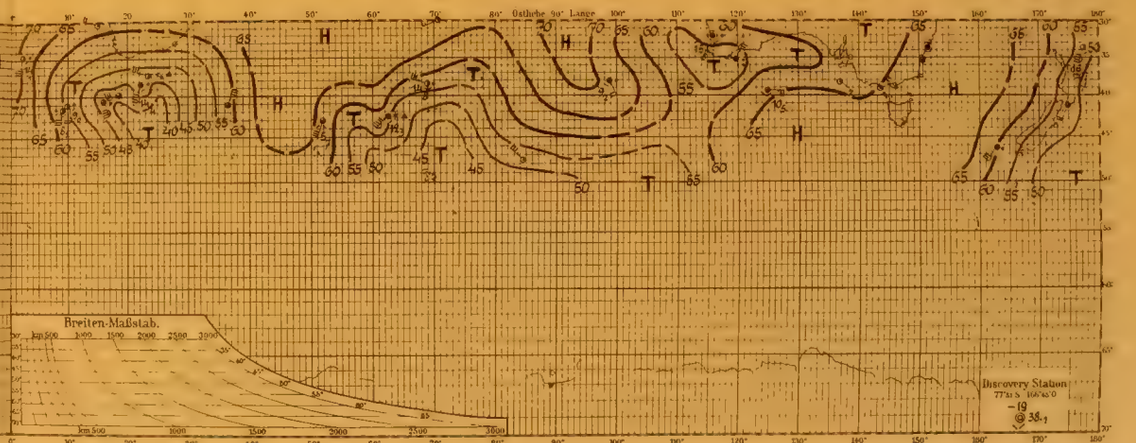
Nr. 712. 23. Juli 1903



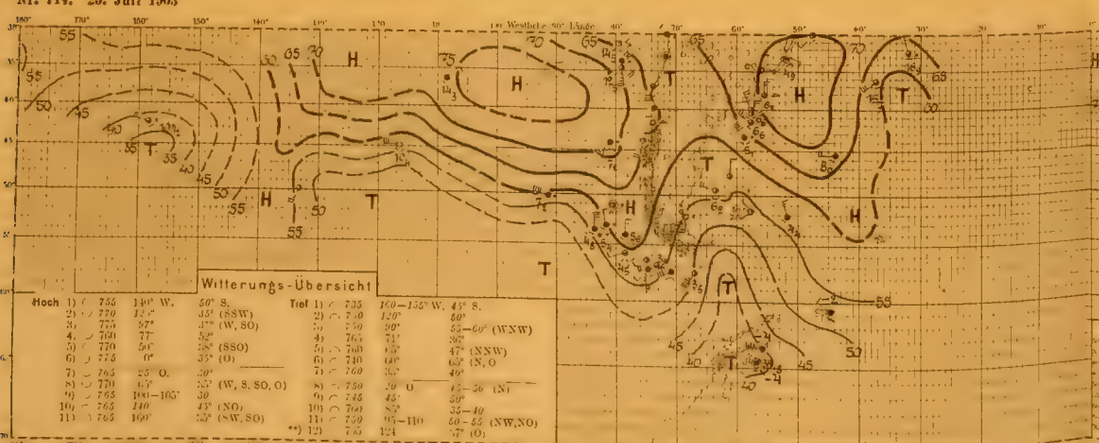


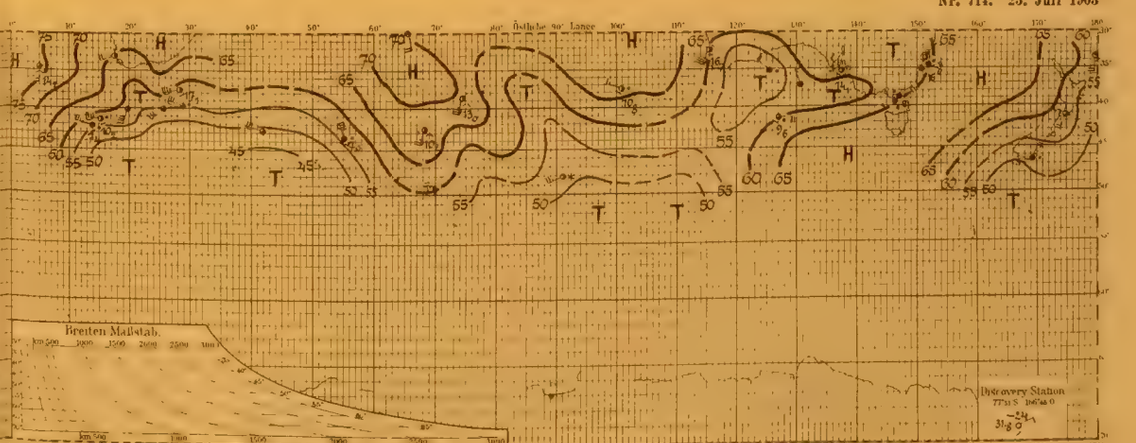
Nr. 713. 24. Juli 1903





Nr. 714. 25. Juli 1903



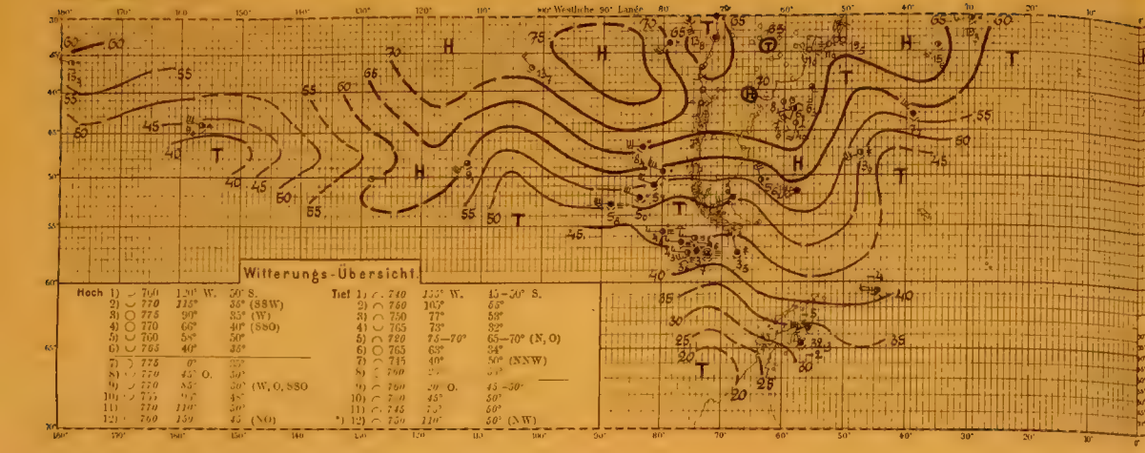


*) 23. Juli: Hoch 13) 765 150—155° 35° (S)
**) 25. Juli: Tief 13) 760 136° 38°
14) 755 145° 30—35°
15) 750 165° 50°

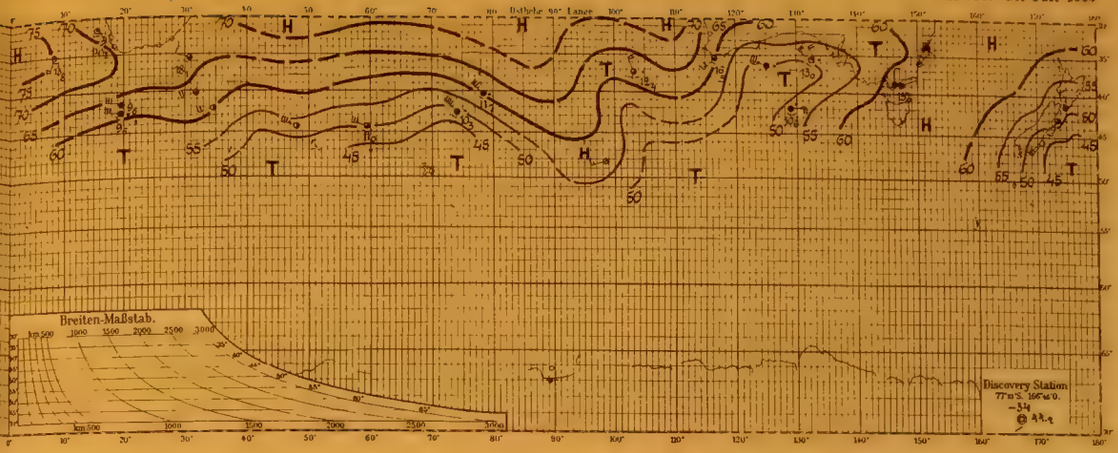
Tafel 239. Nr. 715—717.

26.—28. Juli 1903.

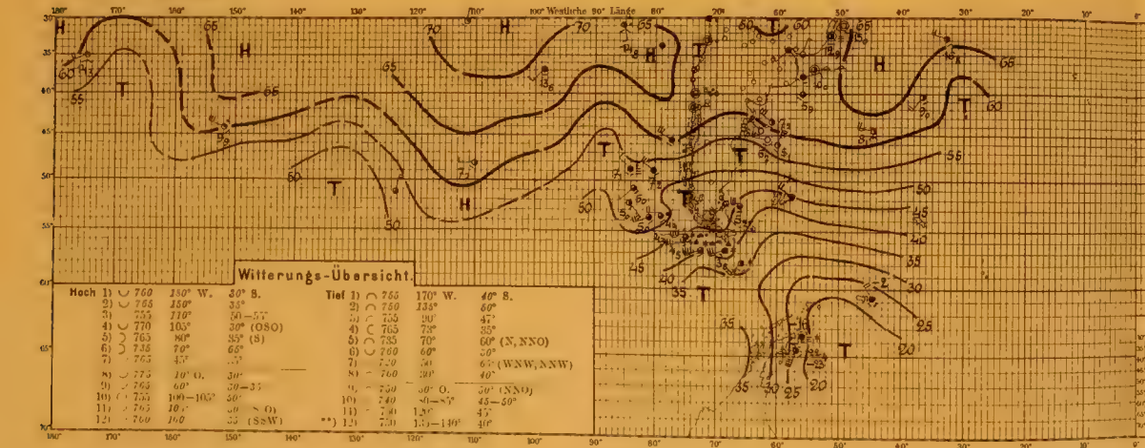
Nr. 715. 26. Juli 1903



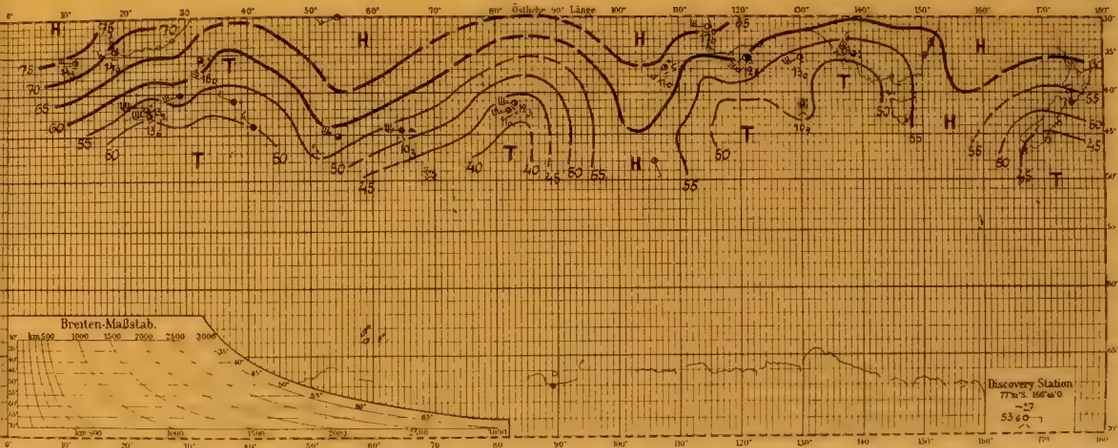
Nr. 715. 26. Juli 1903



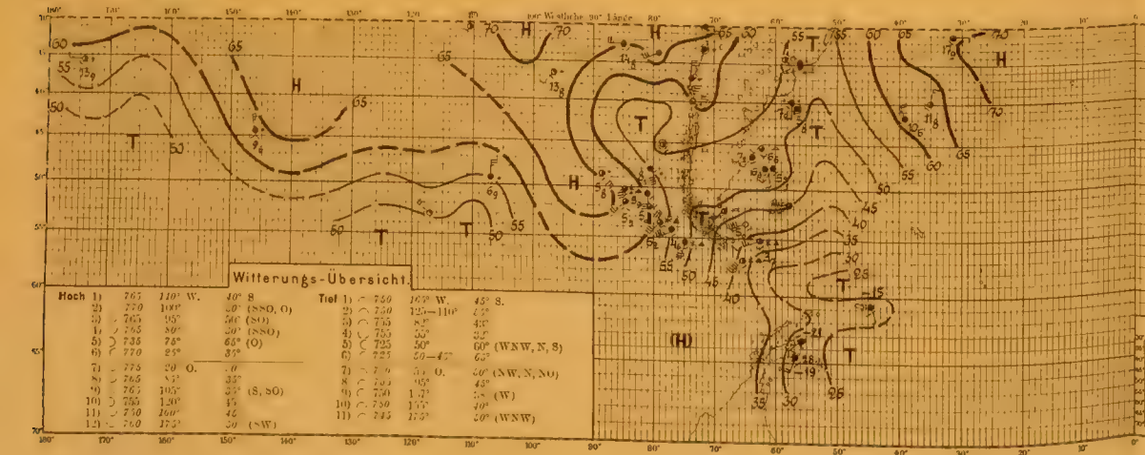
Nr. 716. 27. Juli 1903



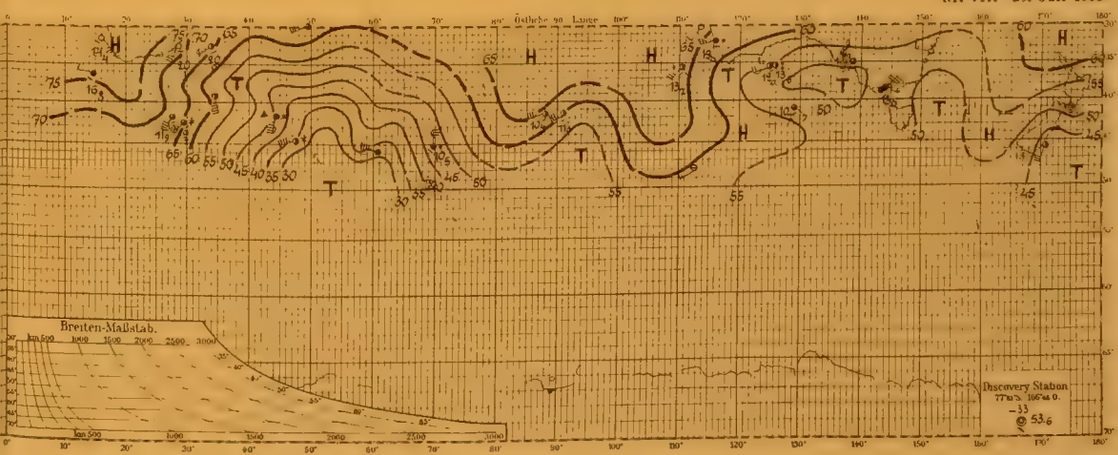
Nr. 716. 27. Juli 1903



Nr. 717. 28. Juli 1903



Nr. 717. 28. Juli 1903

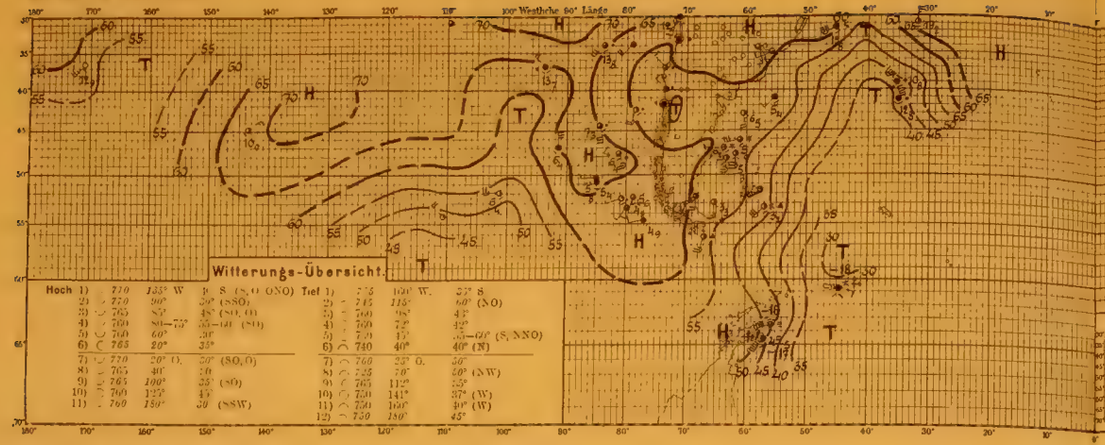


*) 26. Juli: Tief 13) 750 128° 80° (ONO)
14) 745 175° 60°
**) 27. Juli: Tief 13) 745 170° 60° (NO)

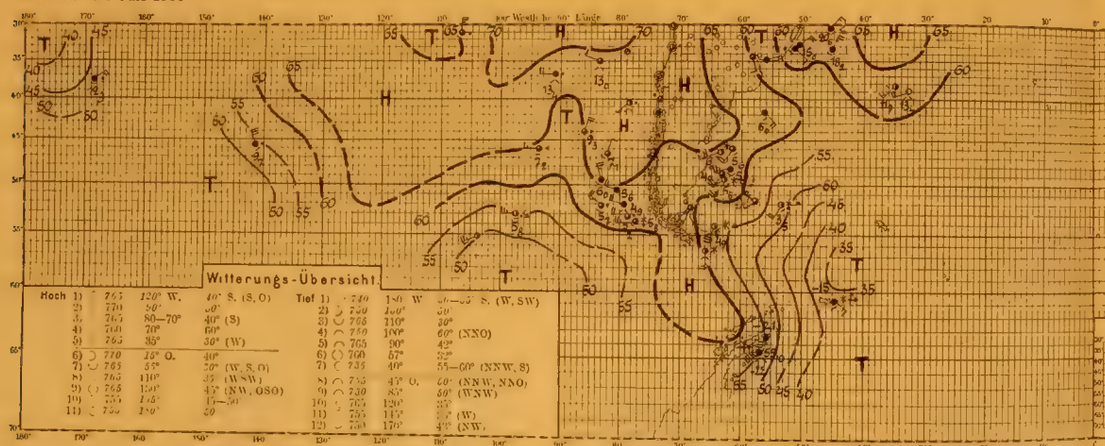
Tafel 240. *Nr. 718—720.*

29.—31. Juli 1903.

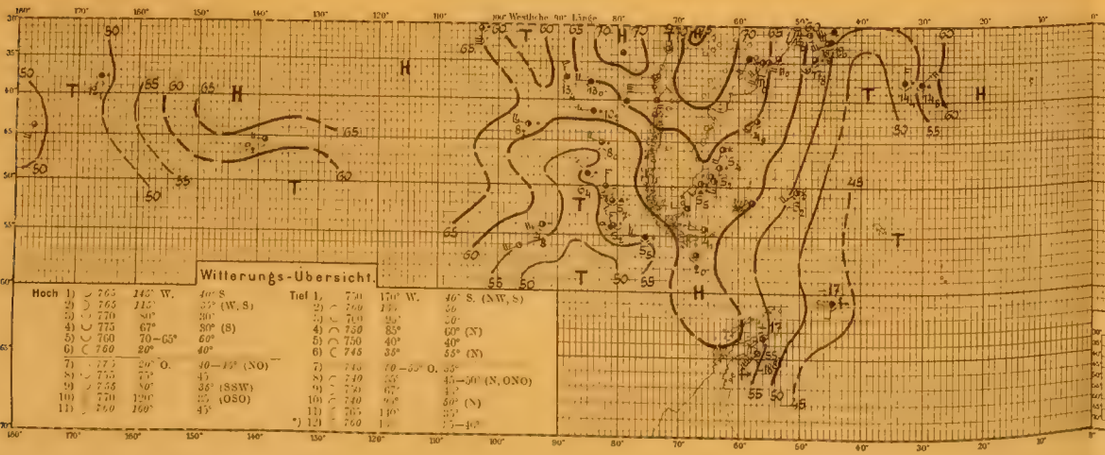
Nr. 718. 29. Juli 1903



Nr. 719. 30. Juli 1903



Nr. 720. 31. Juli 1903

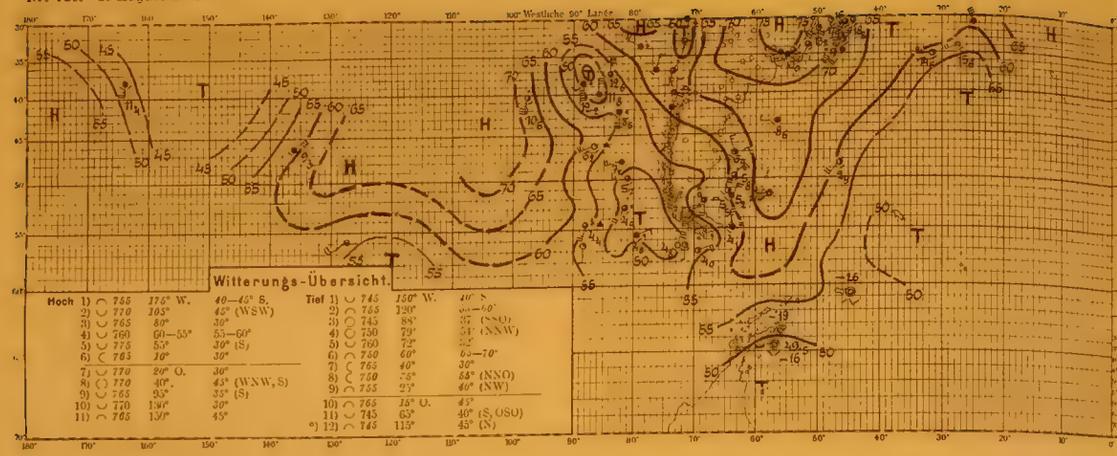


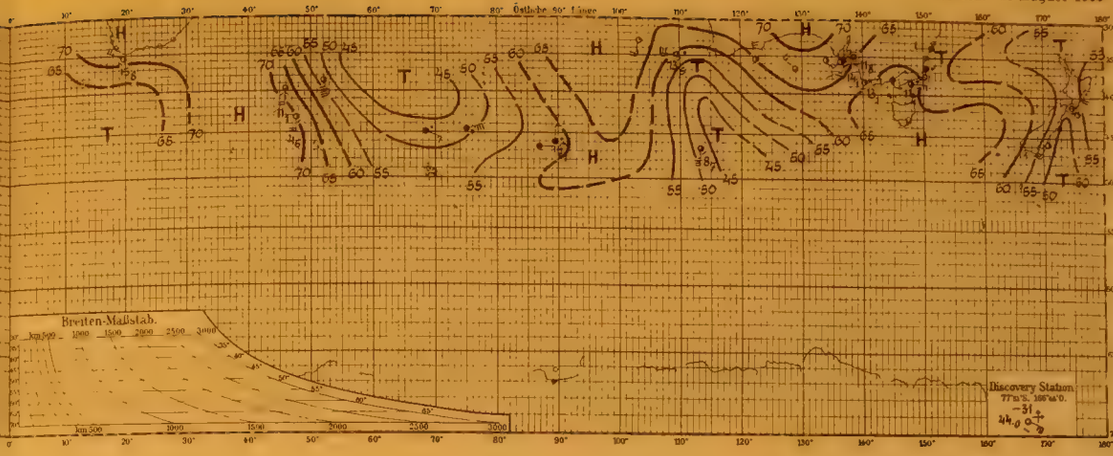
*) 31. Juli: Tief 13) ⊂ 745 175—180° 30—35°
14) ⌒ 750 175—180° 50—55°

Tafel 241. Nr. 721–723.

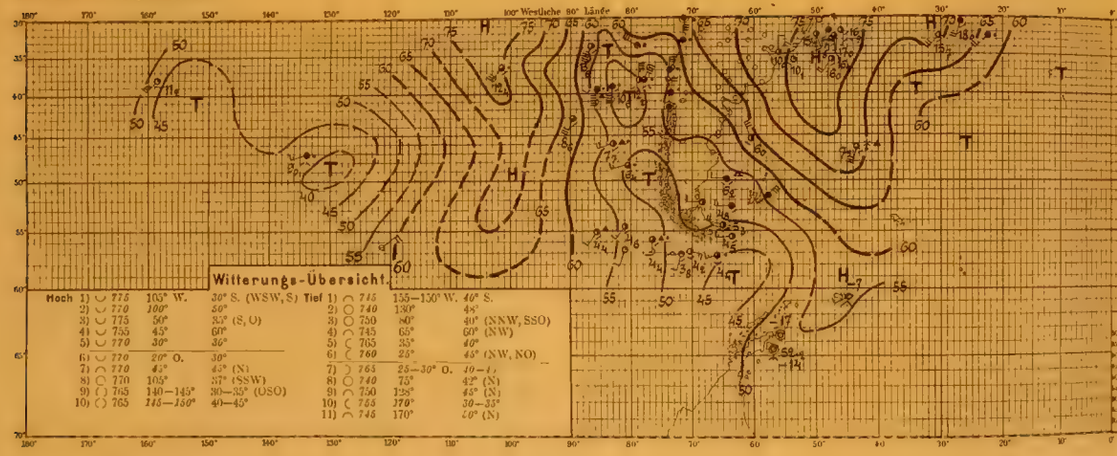
1.—3. August 1903.

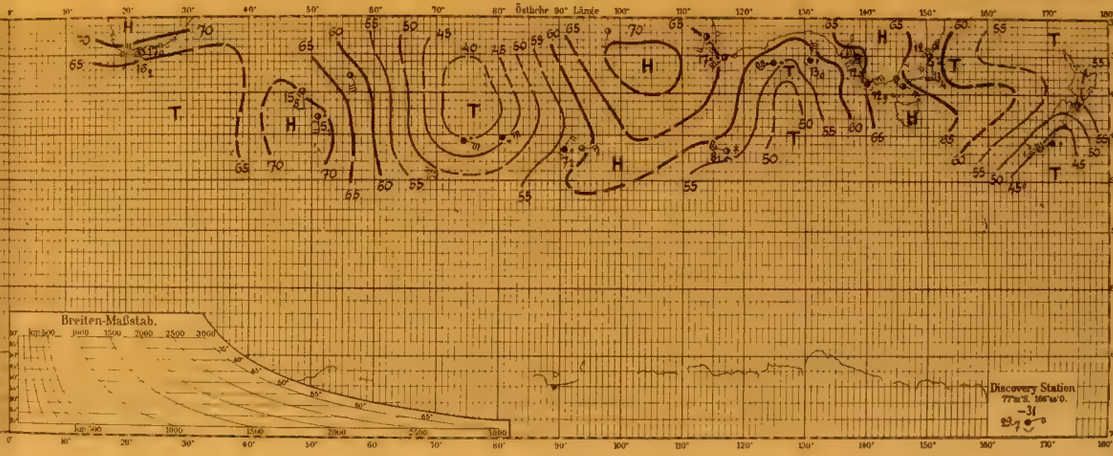
Nr. 721. 1. August 1903



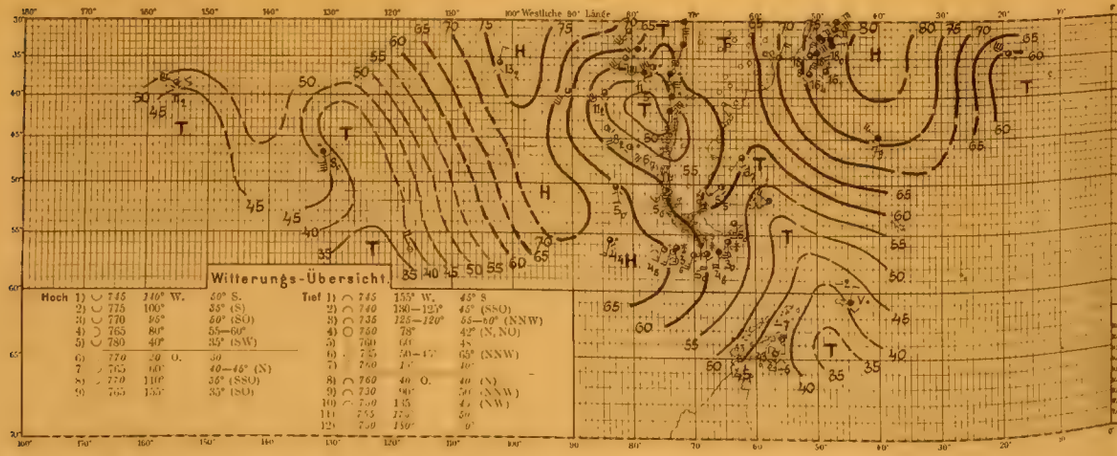


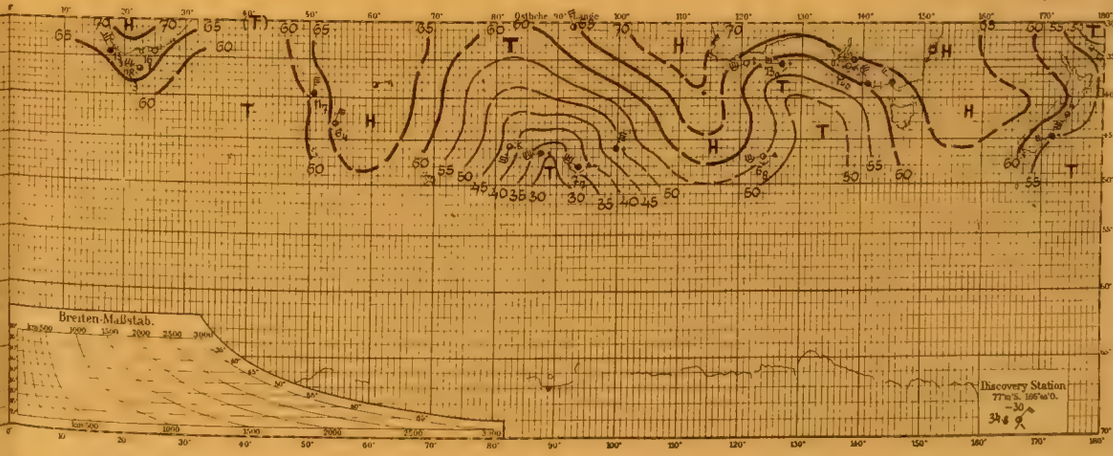
Nr. 722. 2. August 1903





Nr. 723. 3. August 1903



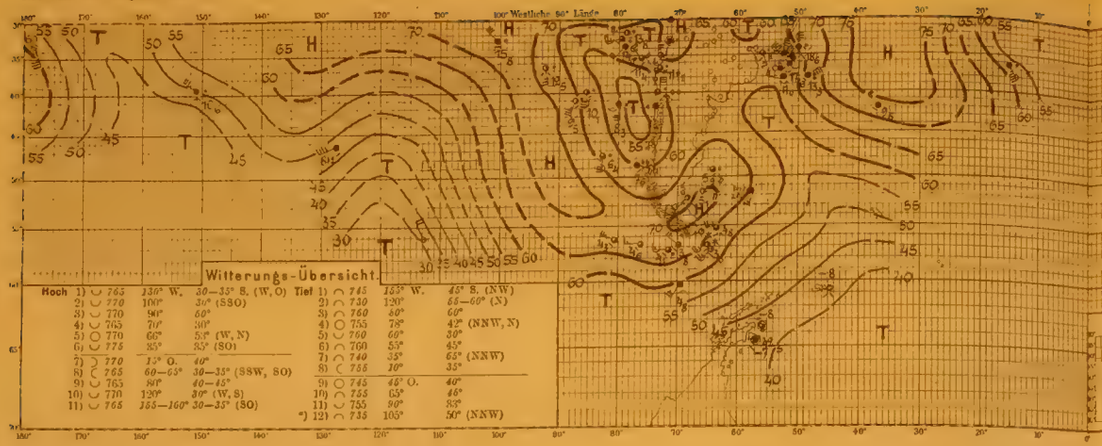


*) 1. August: Tief 13) ∩ 750 170—175° 50° (NW, N)

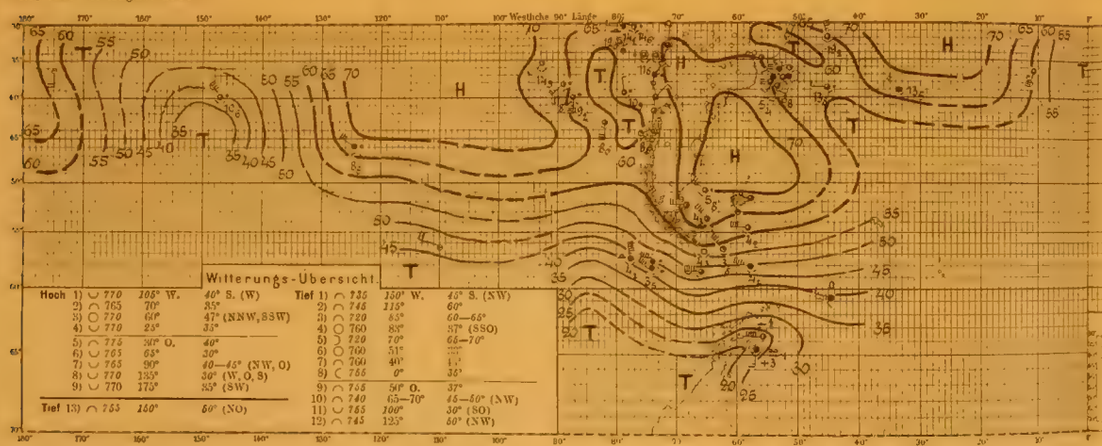
Tafel 242. Nr. 724–726.

4.—6. August 1903.

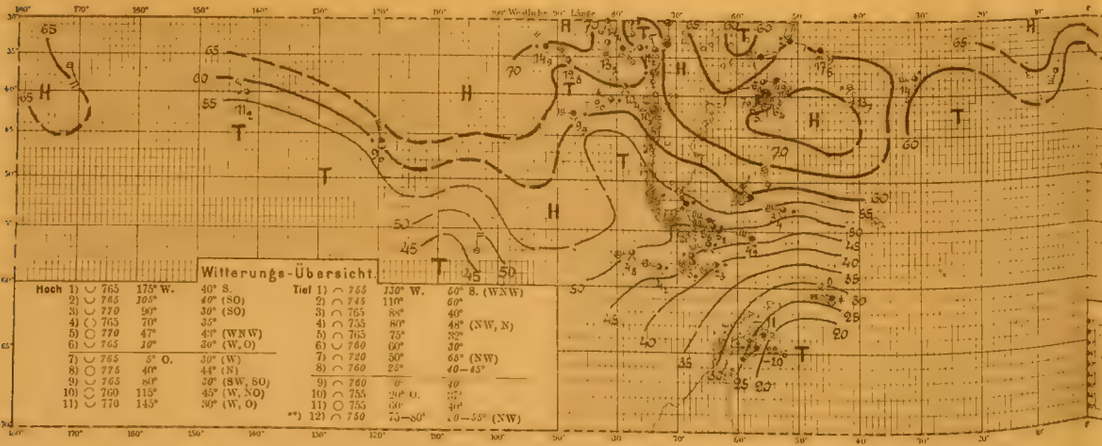
Nr. 724. 4. August 1903



Nr. 725. 5. August 1903



Nr. 726. 6. August 1903

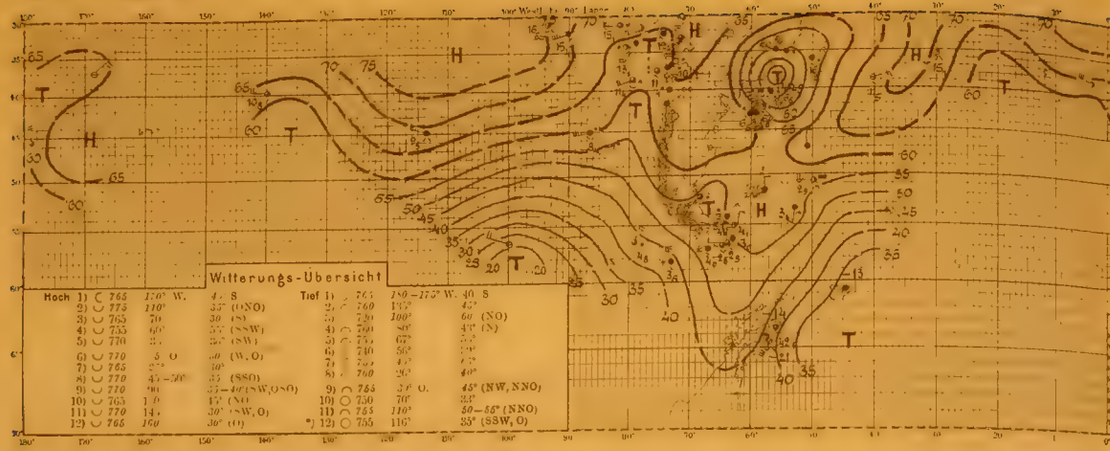


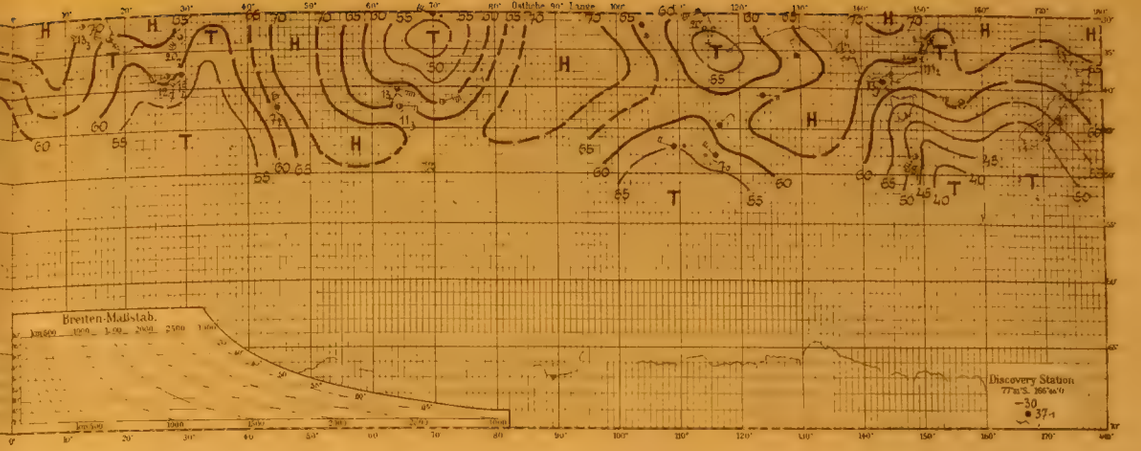
*) 4. August: Tief 13) ∩ 755 145° 50° (NNW)
**) 6. August: Tief 13) ○ 755 105° 55°
14) ∩ 740 140° 50°
15) ∩ 745 160° 50° (NO)

Tafel 243. Nr. 727—729.

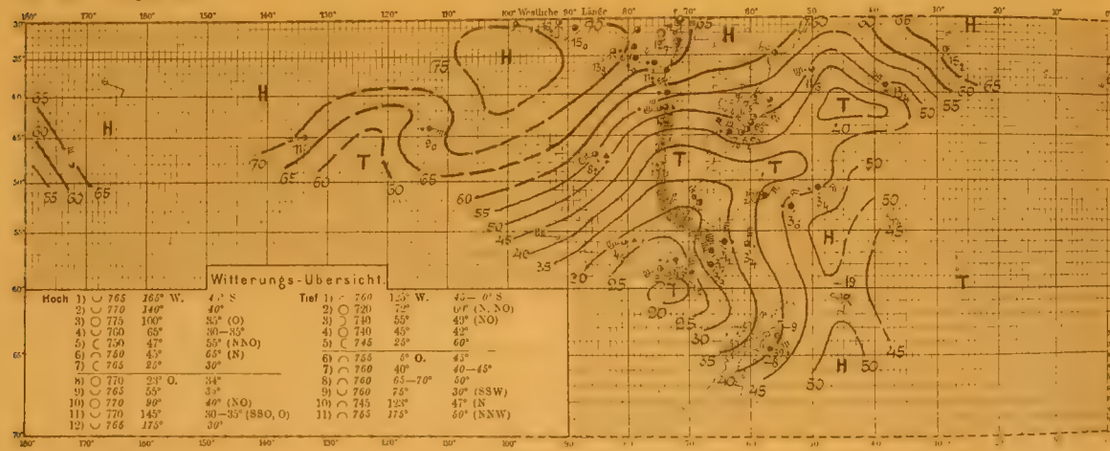
7—9. August 1903.

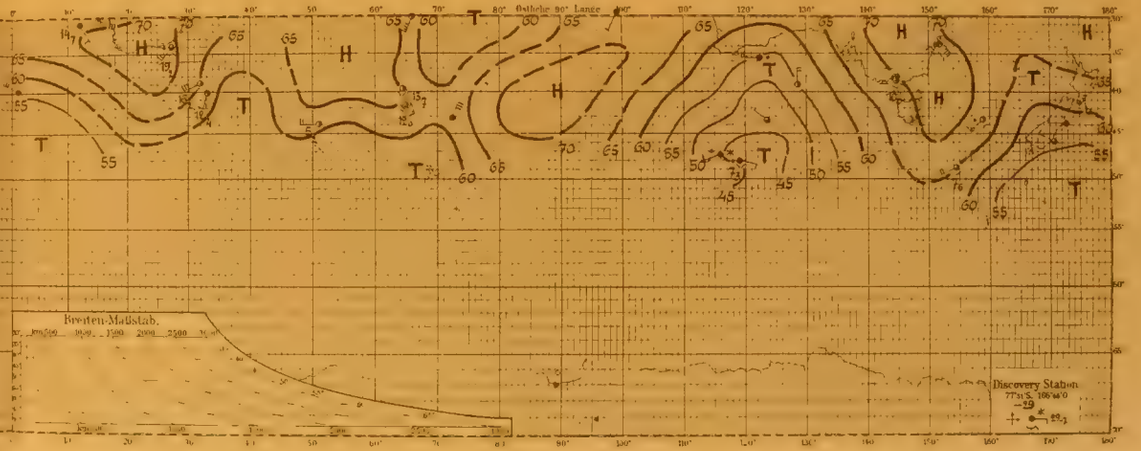
Nr. 727. 7. August 1903



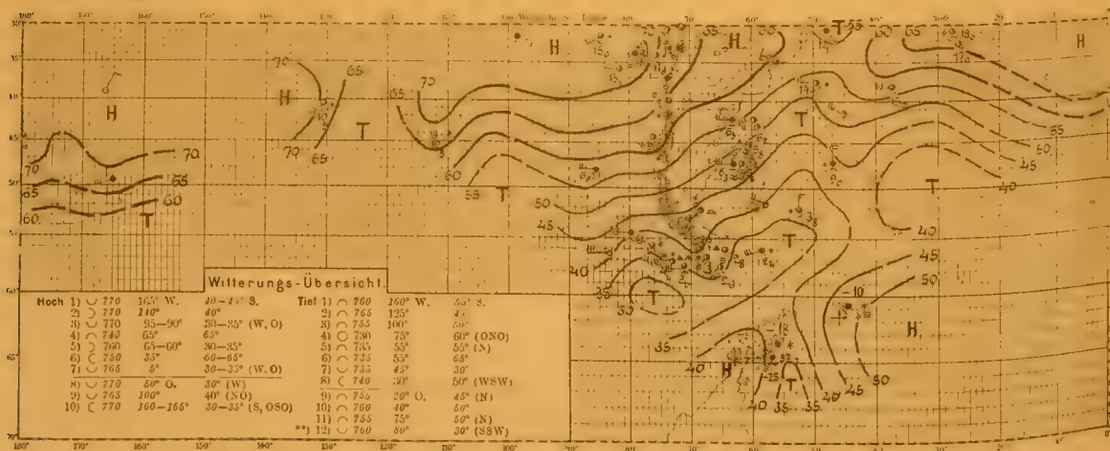


Nr. 728. 8. August 1903





Nr. 729. 9. August 1903

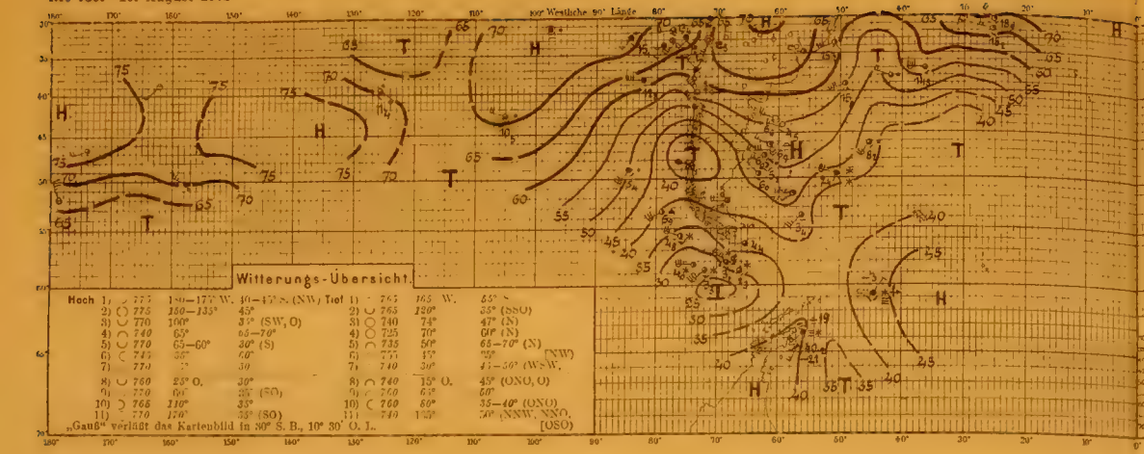


*) 7. August: Tief 13) 740 155° 50—55° (N, O)
**) 9. August: Tief 13) 740 130° 50° (NNW, NNO)
14) 750 175° 55—60° (O)

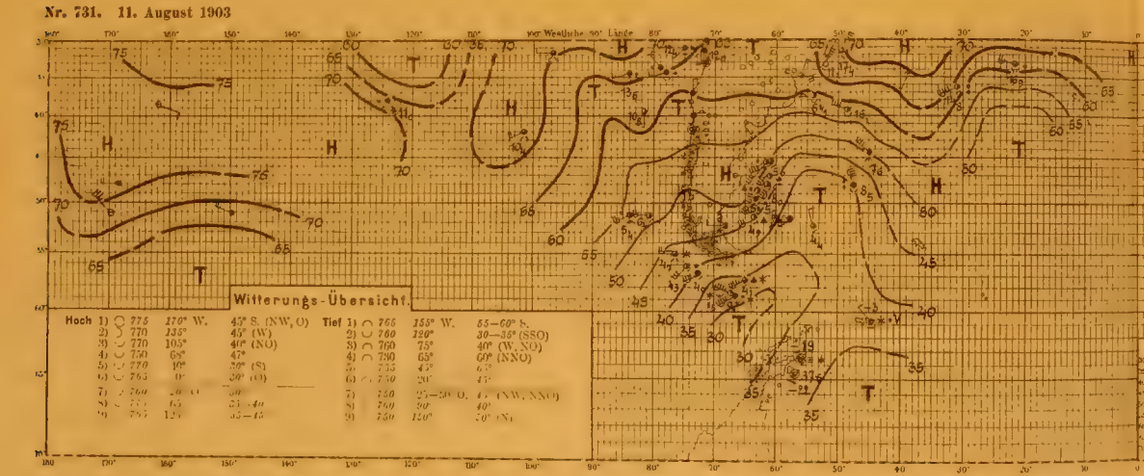
Tafel 244. Nr. 730—732.

10. –12. August 1903.

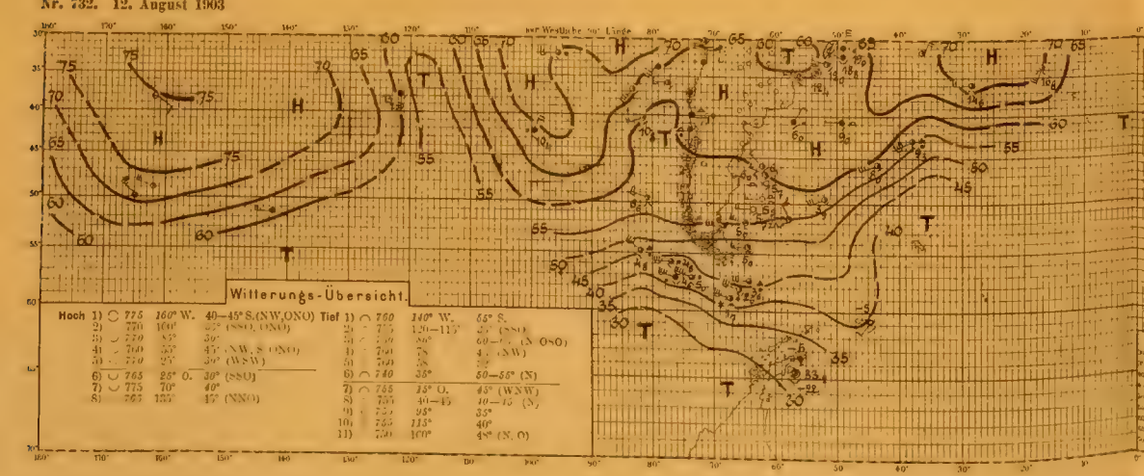
Nr. 730. 10. August 1903



Nr. 731. 11. August 1903



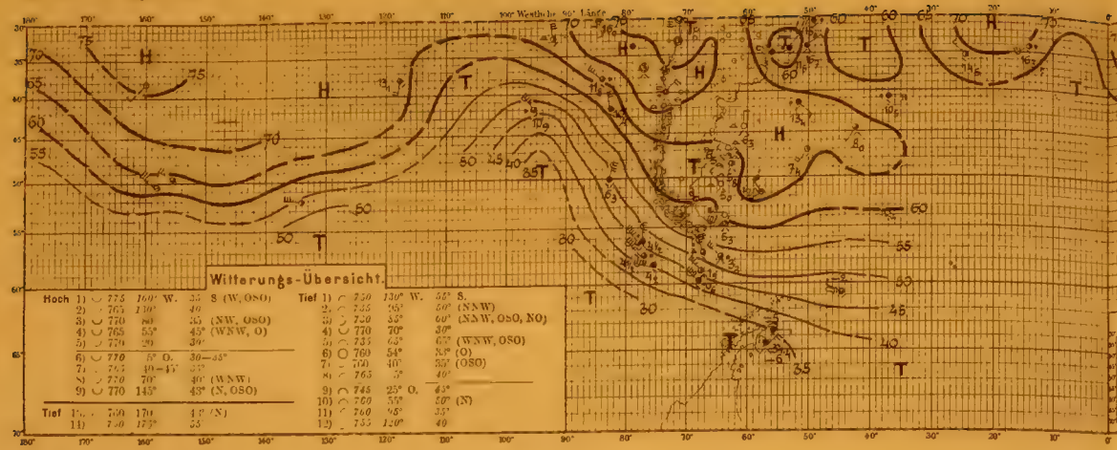
Nr. 732. 12. August 1903



Tafel 245. Nr. 733—735.

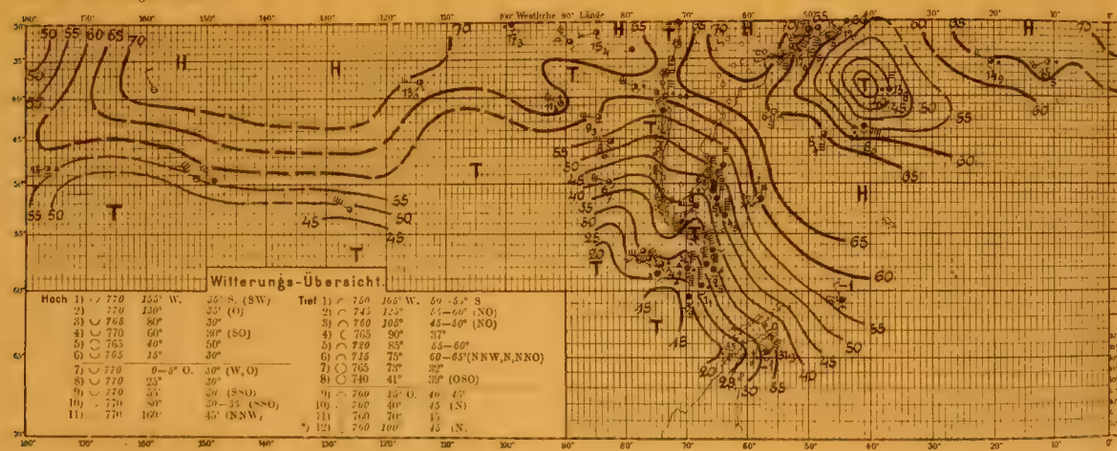
13.—15. August 1903.

Nr. 733. 13. August 1903



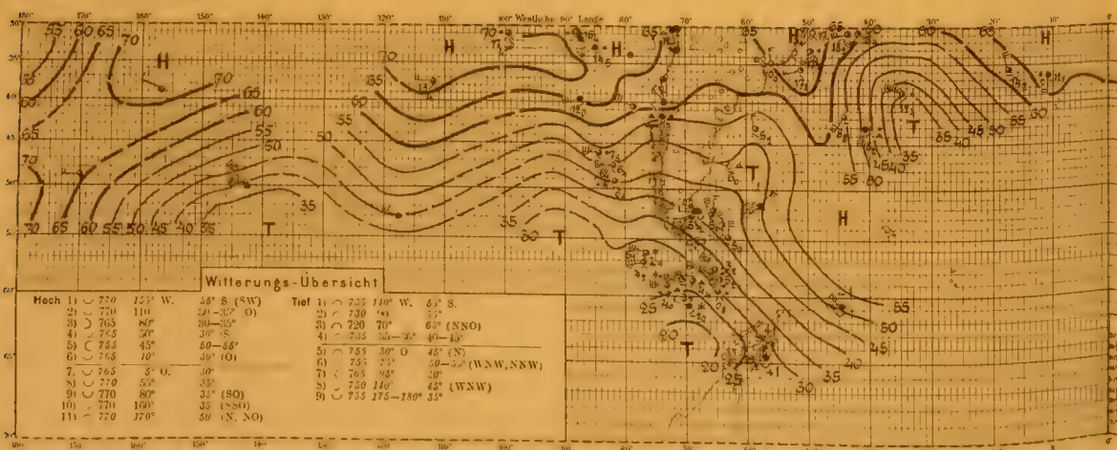
Nr. 733. 13. August 1903

Nr. 734. 14. August 1903



Nr. 734. 14. August 1903

Nr. 735. 15. August 1903



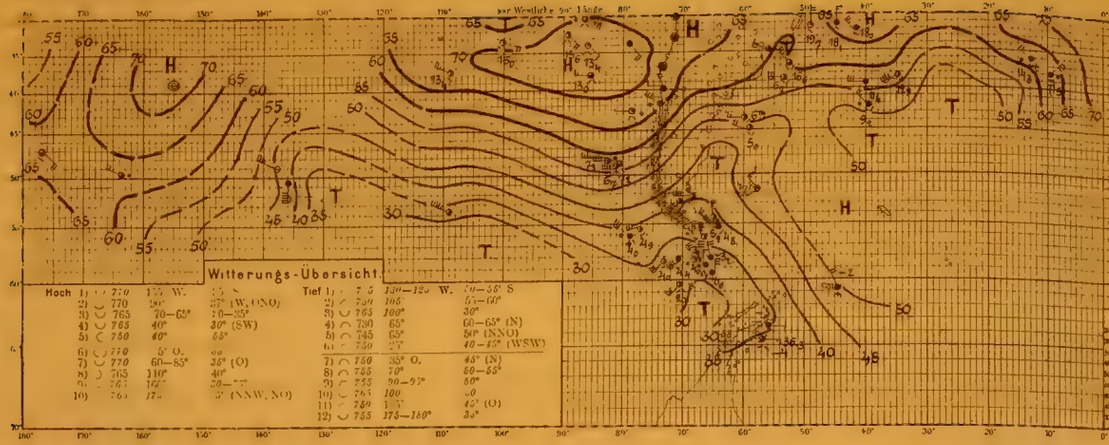
Nr. 735. 15. August 1903

*) 14. August: Tief 13) ◠ 760 115° 35—40° (SO)
14) ◠ 760 180° 35°

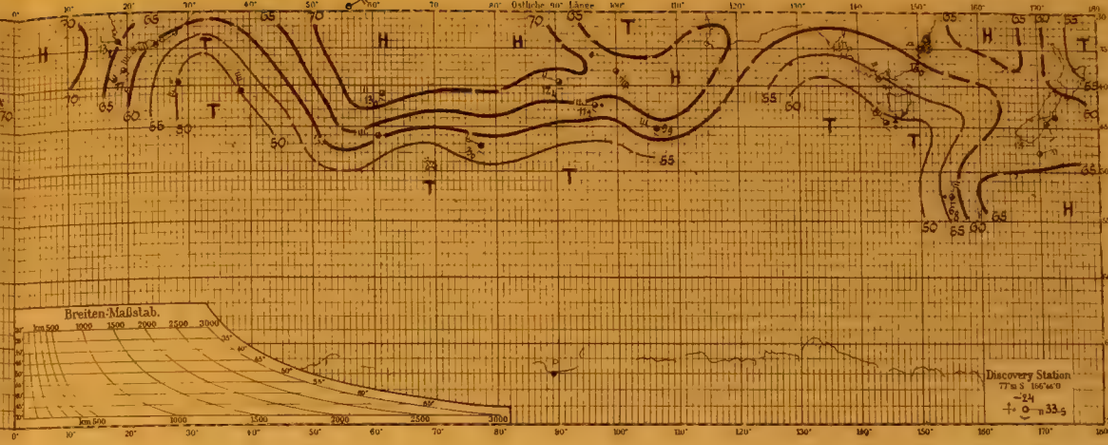
Tafel 246. *Nr. 736—738.*

16.—18. August 1903.

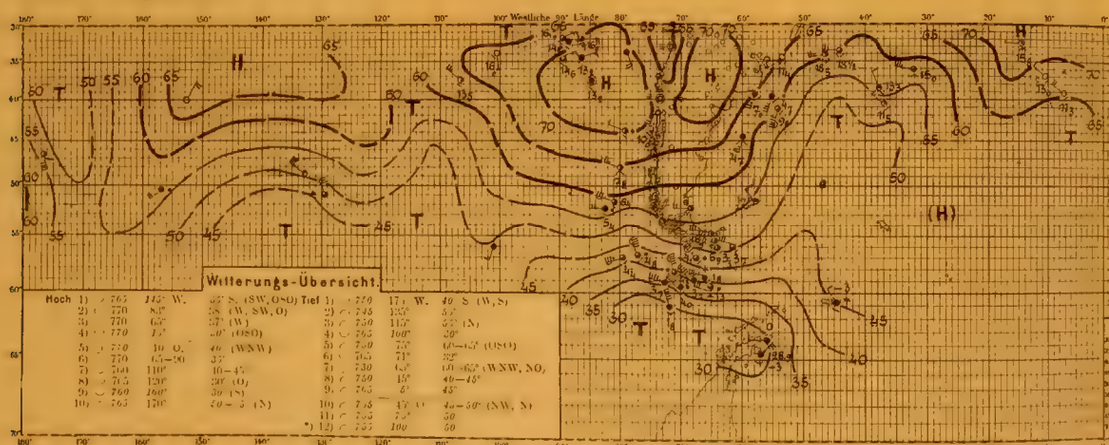
Nr. 736. 16. August 1903



Nr. 736. 16. August 1903

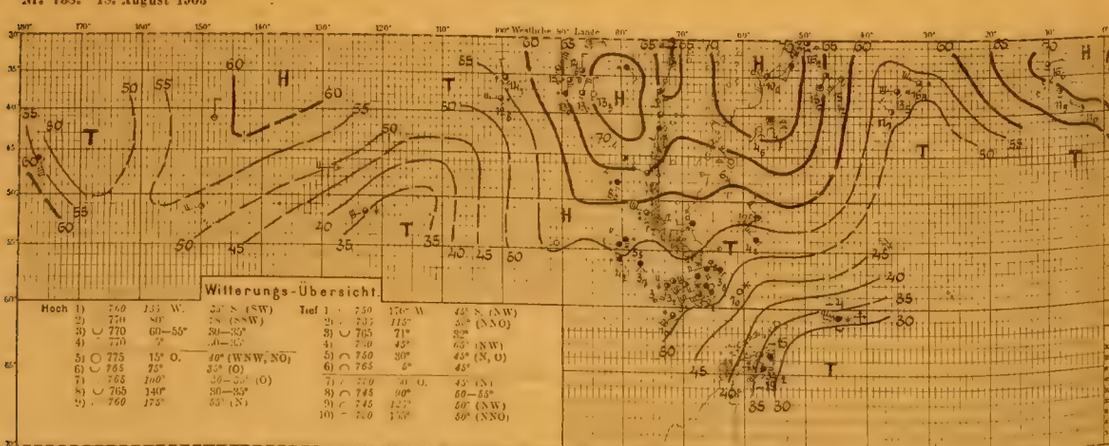


Nr. 737. 17. August 1903

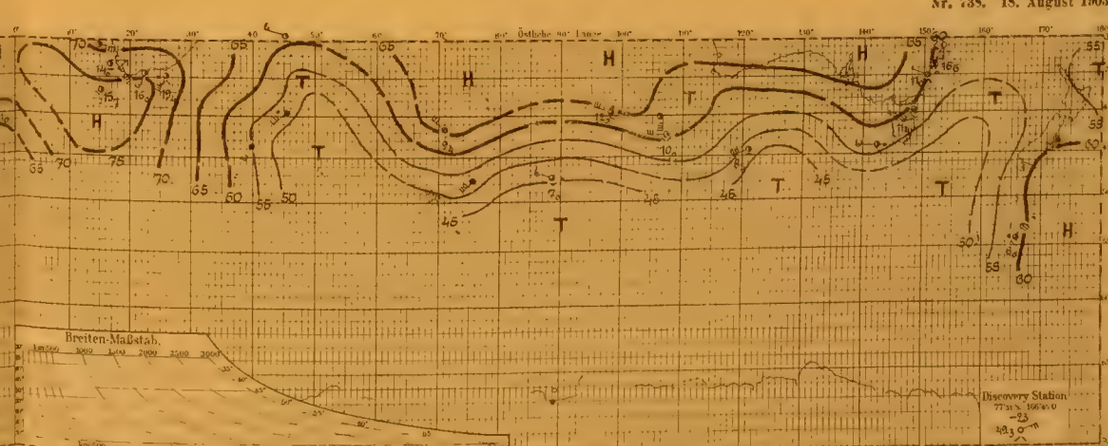


Nr. 737. 17. August 1903

Nr. 738. 18. August 1903



Nr. 738. 18. August 1903

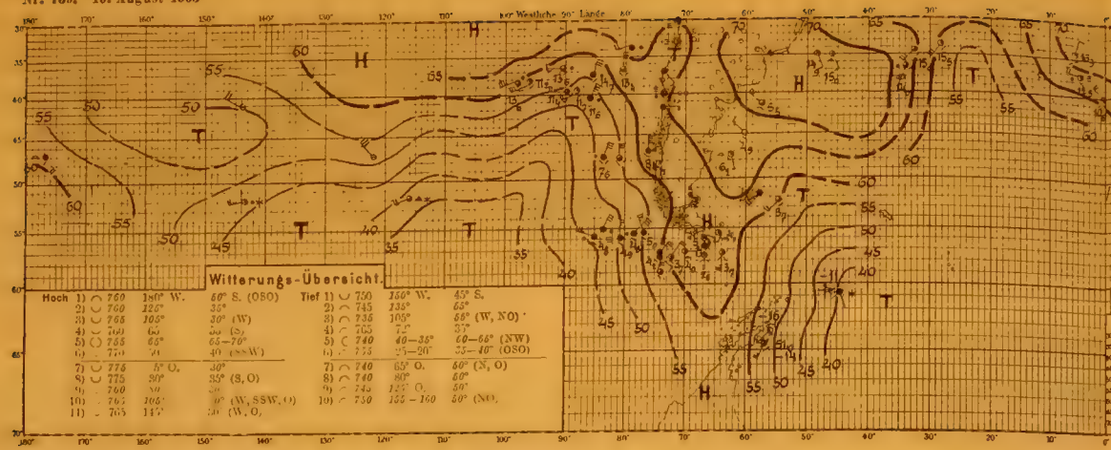


*) 17. August: Tief 13) ◠ 765 105° 35°
14) ◠ 745 145° 50° (WNW, NO)

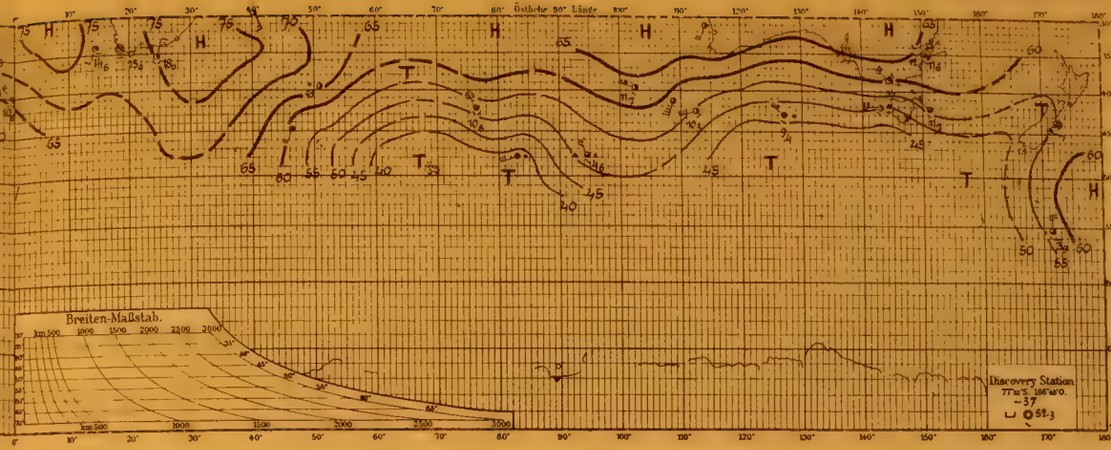
Tafel 247. Nr. 739—741.

19.—21. August 1903.

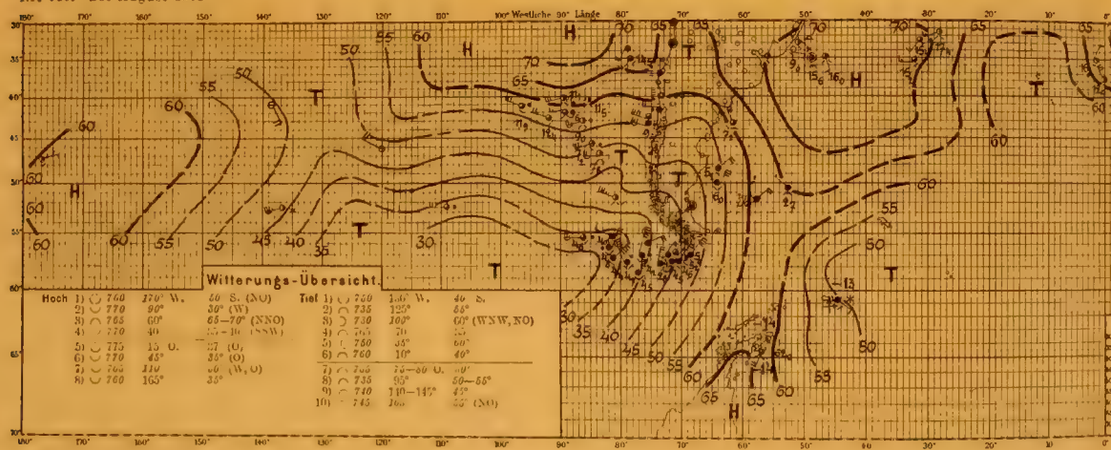
Nr. 739. 19. August 1903



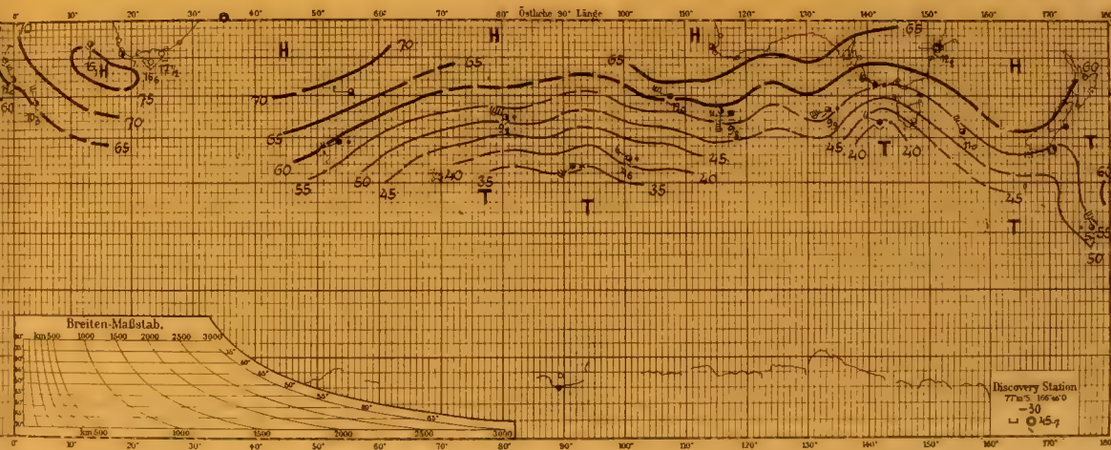
Nr. 739. 19. August 1903



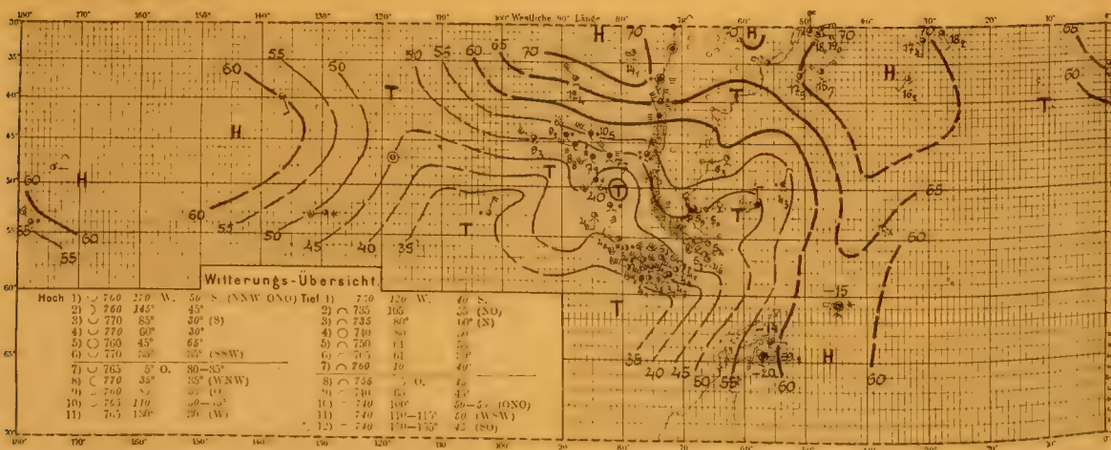
Nr. 740. 20. August 1903



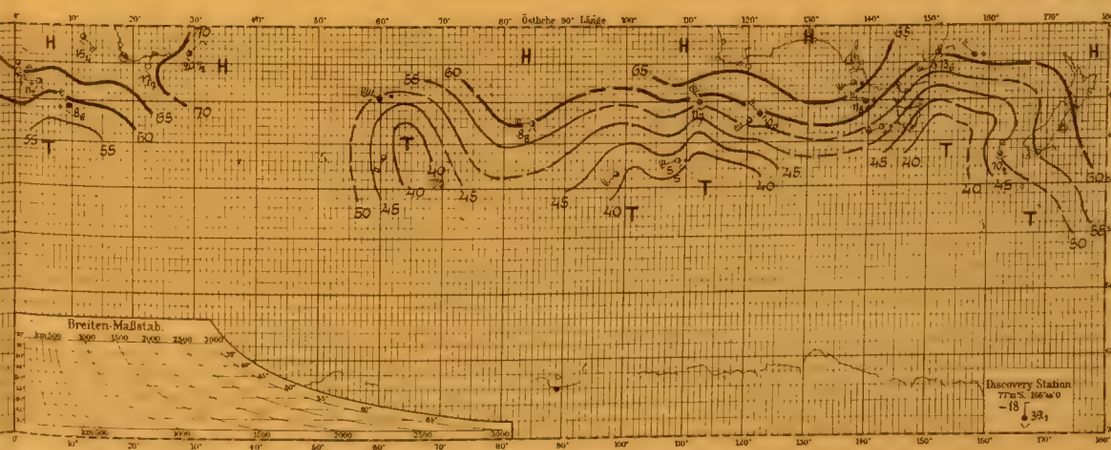
Nr. 740. 20. August 1903



Nr. 741. 21. August 1903



Nr. 741. 21. August 1903



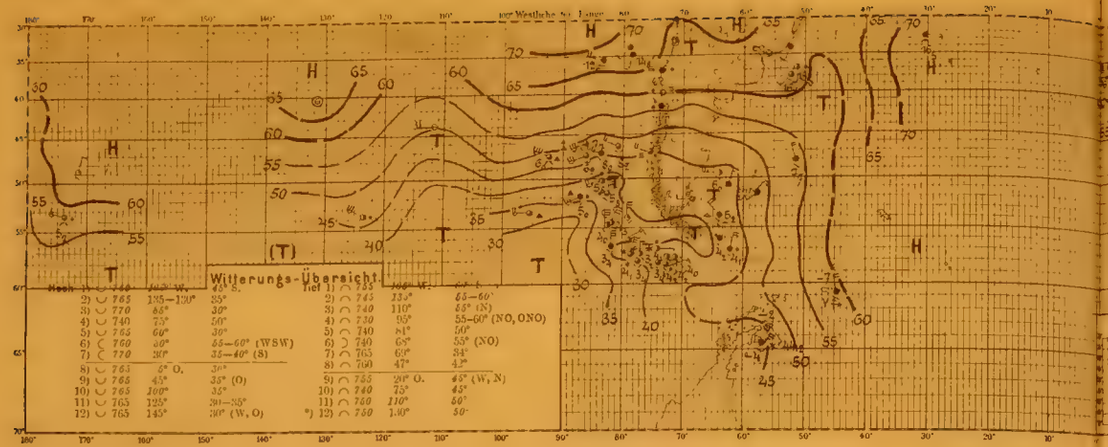
*) 21. August: Tief 13) ☽ 750 165—170° 65°

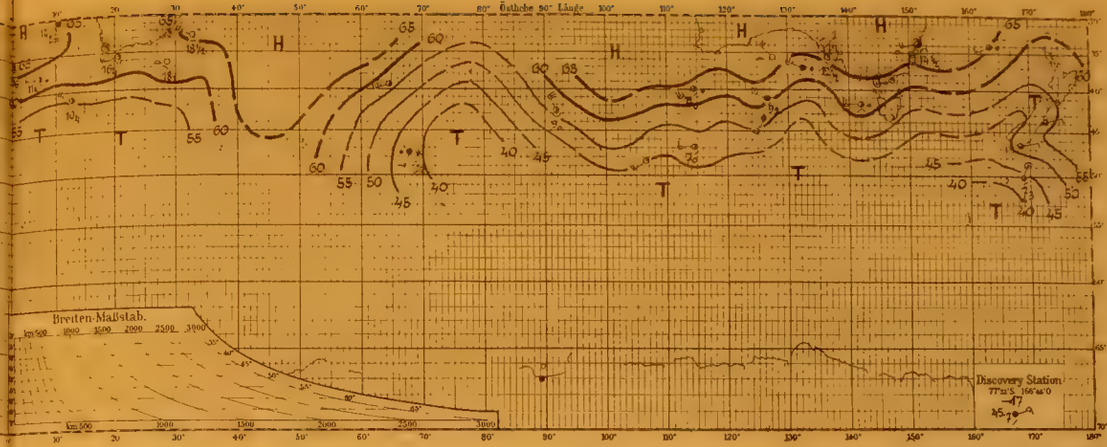
Tafel 248. Nr. 742—744.

22.—24. August 1903.

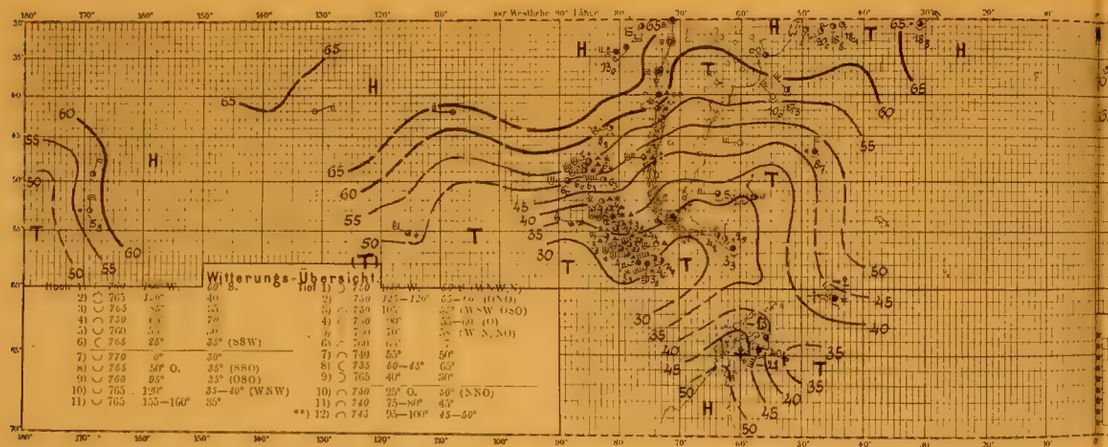
MARINE BIOLOGICAL LABORATORY
WOODS HOLE
LIBRARY
MASS.

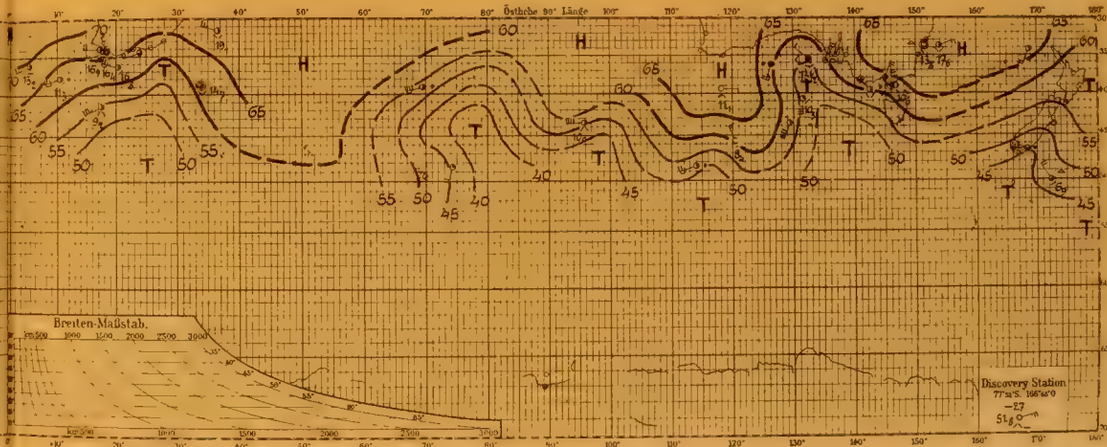
Nr. 742. 22. August 1903



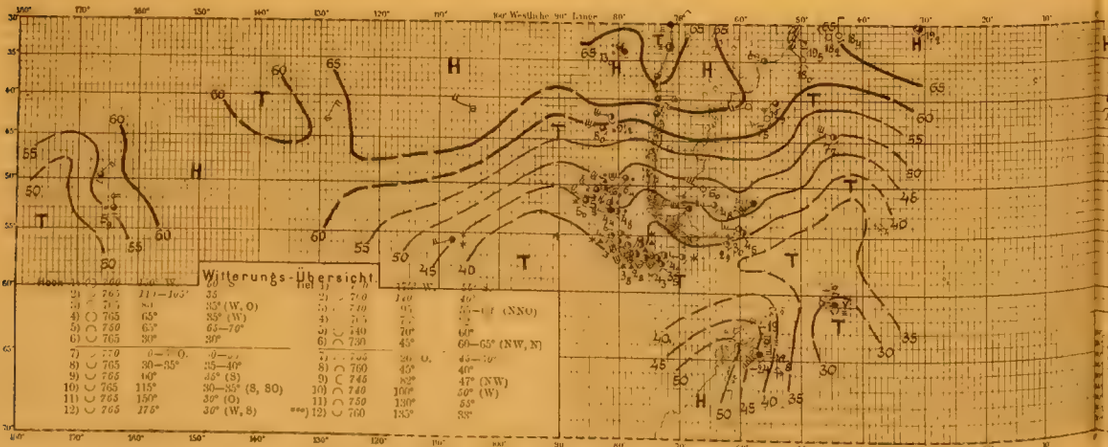


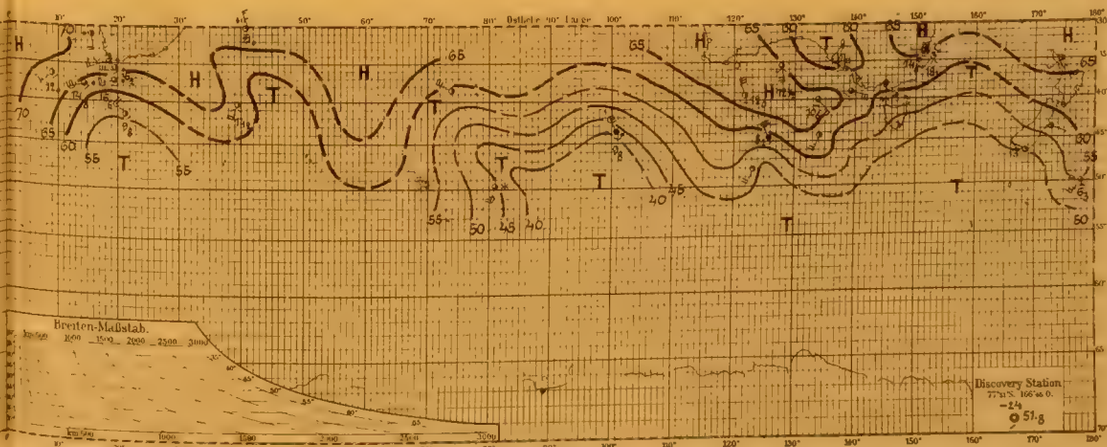
Nr. 743. 23. August 1903





Nr. 744. 24. August 1903



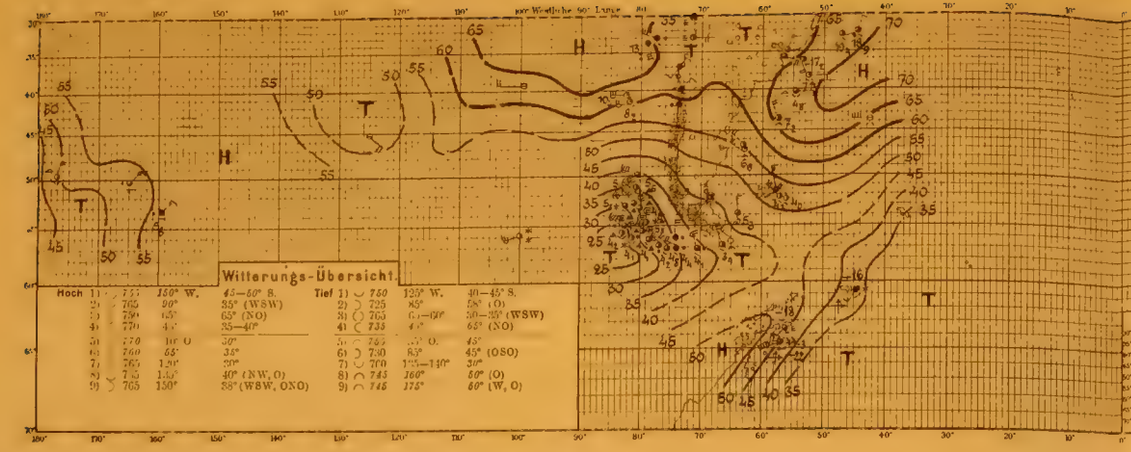


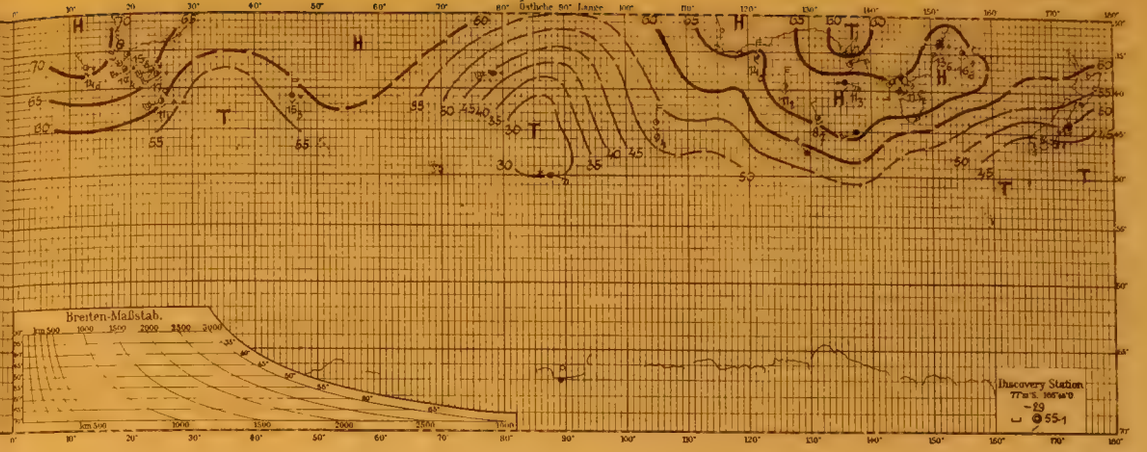
*) 22. August: Tief 13) ∩ 740 165° 55° (NNO)
**) 23. August: Tief 13) ∩ 750 115° 50—55°
14) ∩ 750 140° 45° (NNW)
15) ∩ 745 165° 50° (NO, OSO)
***) 24. August: Tief 13) ∩ 750 155—160° 60° (NW, N)

Tafel 249. Nr. 745—747.

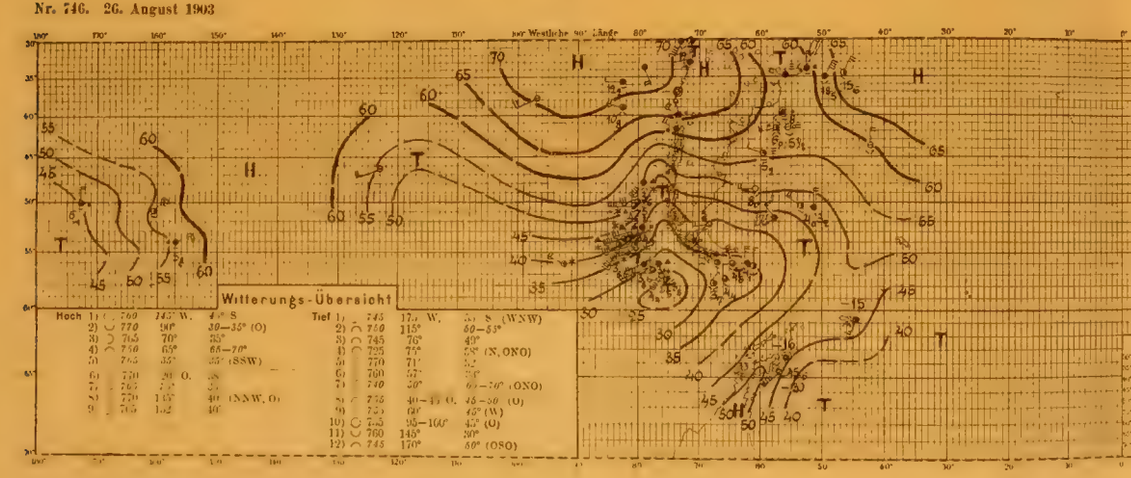
25.—27. August 1903.

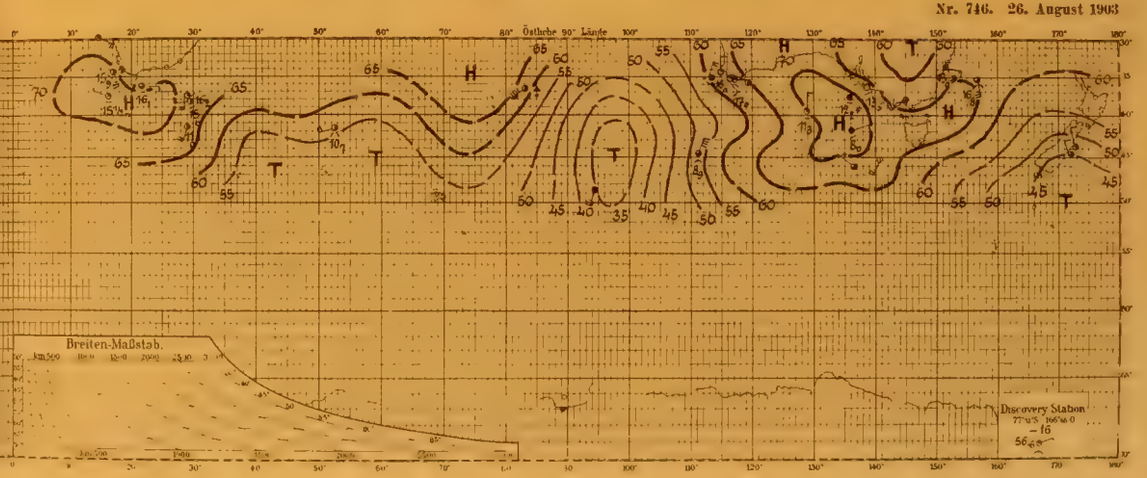
Nr. 745. 25. August 1903



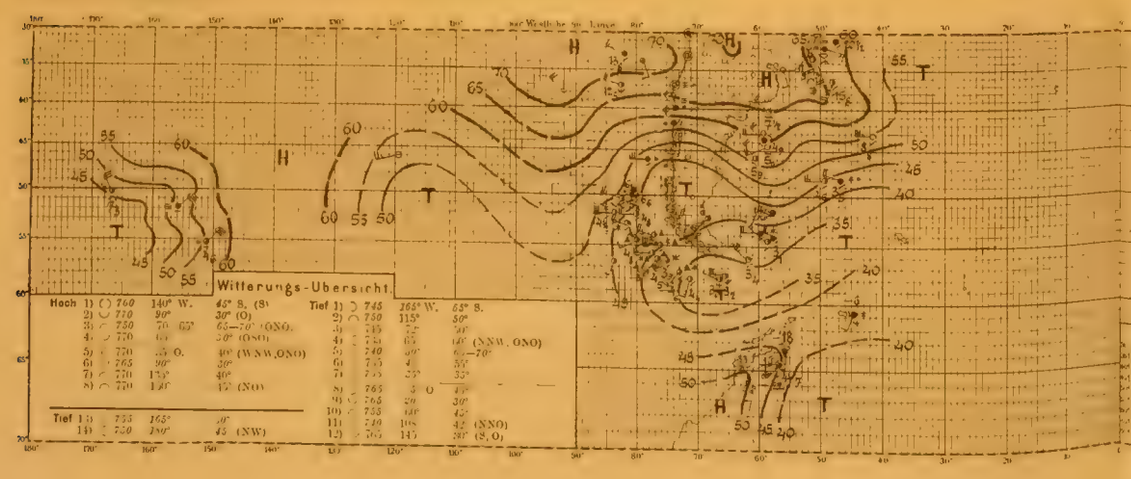


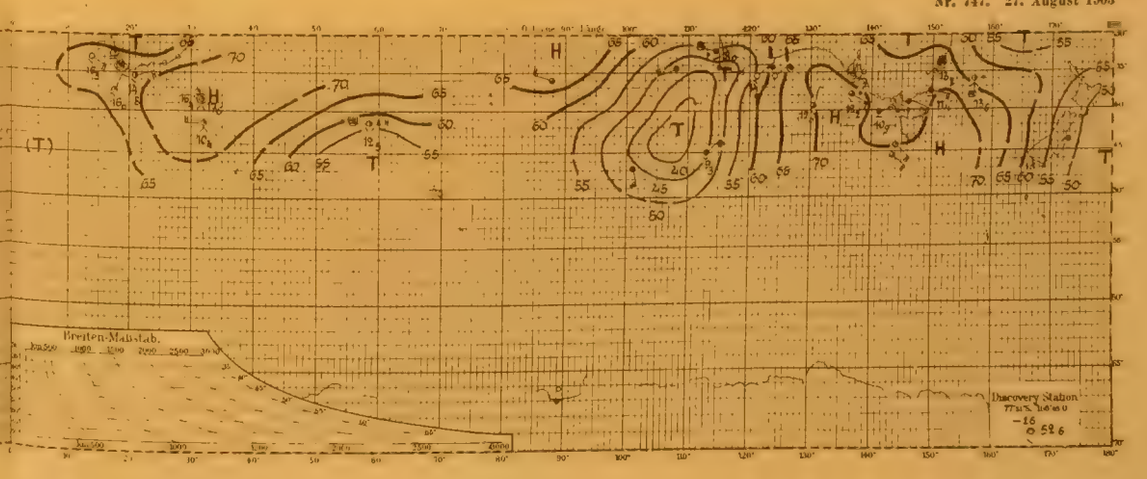
Nr. 746. 26. August 1903





Nr. 747. 27. August 1903

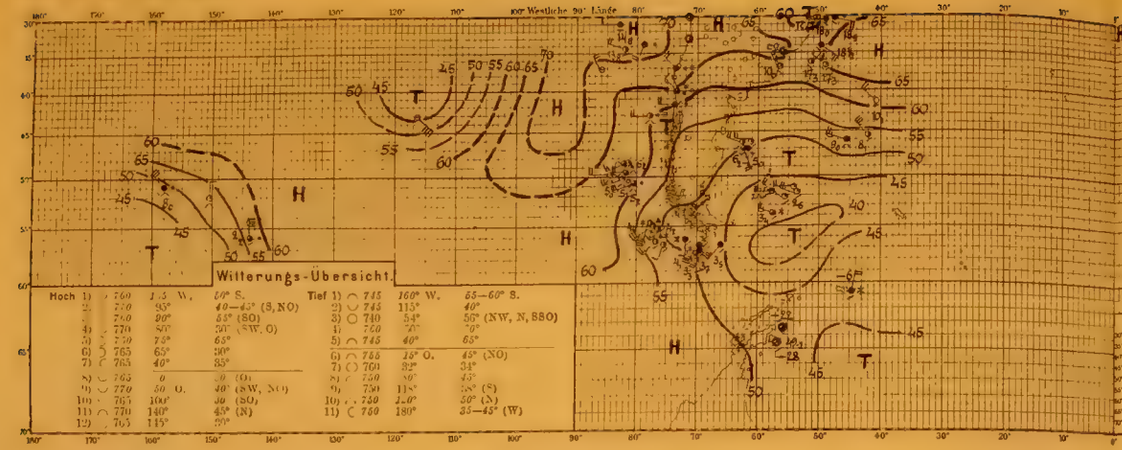




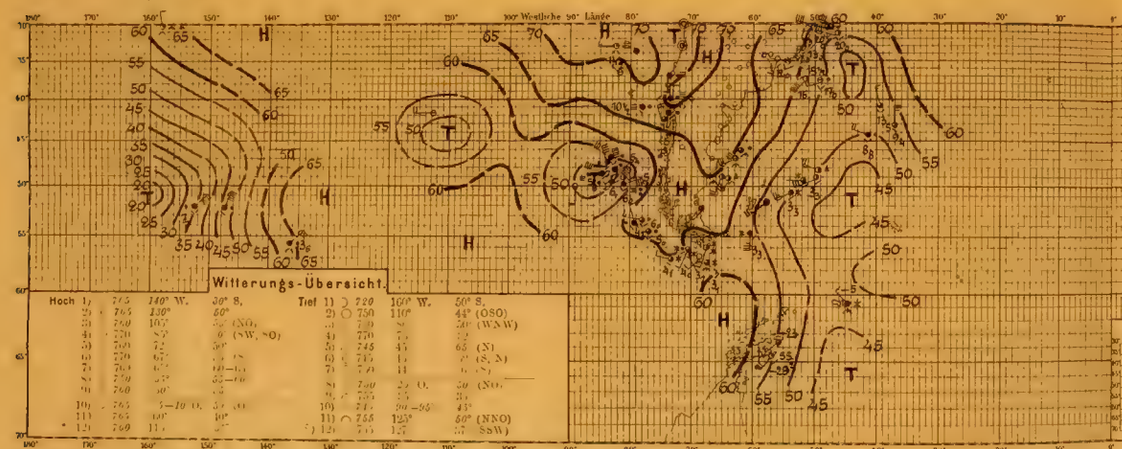
Tafel 250. Nr. 748—750.

28.—30. August 1903.

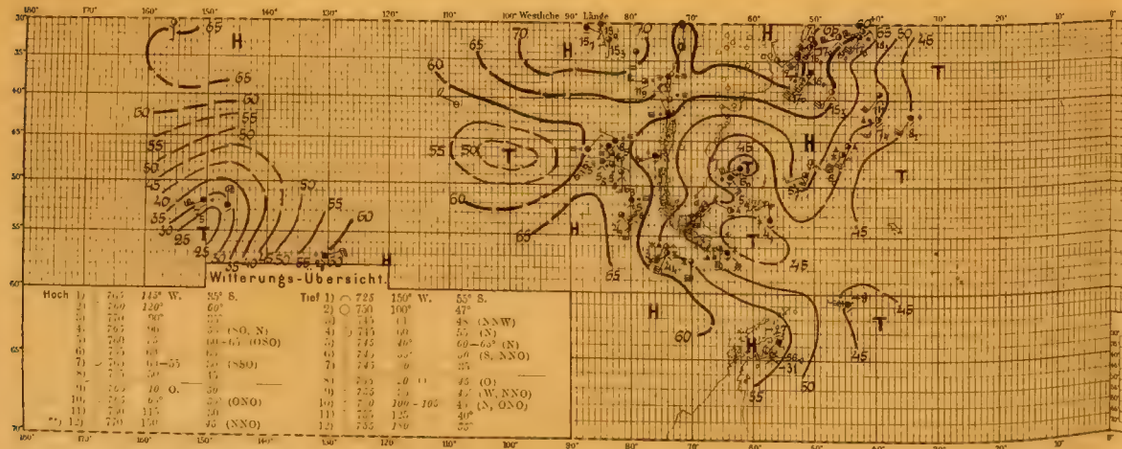
Nr. 748. 28. August 1903



Nr. 749. 29. August 1903



Nr. 750. 30. August 1903

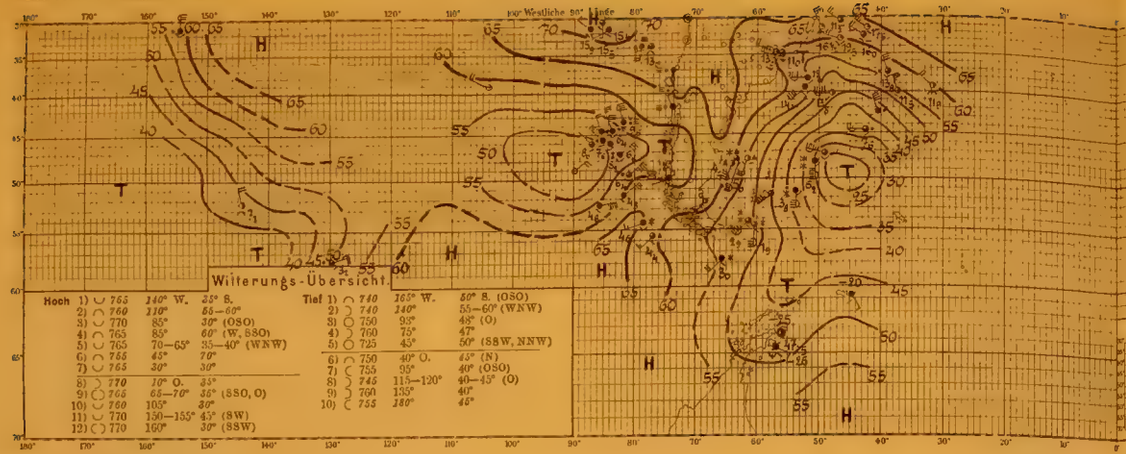


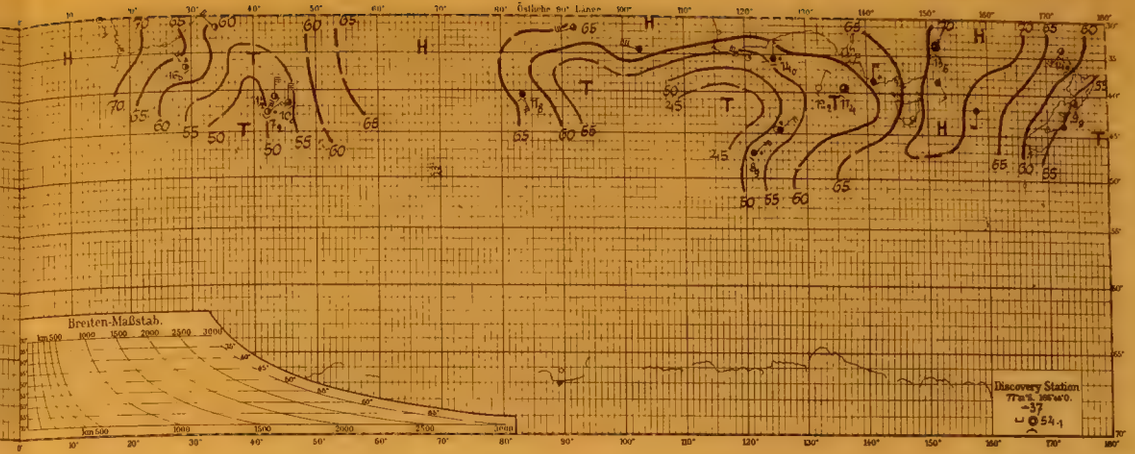
*) 29. August. Hoch 1) 770 145° 45° (NNO) Tief 1) 750 180° 40° (N)
11) 765 140° 50° (O)
*) 30. August. Hoch 1) 765 150° 50—55

Tafel 251. *Nr. 751—753.*

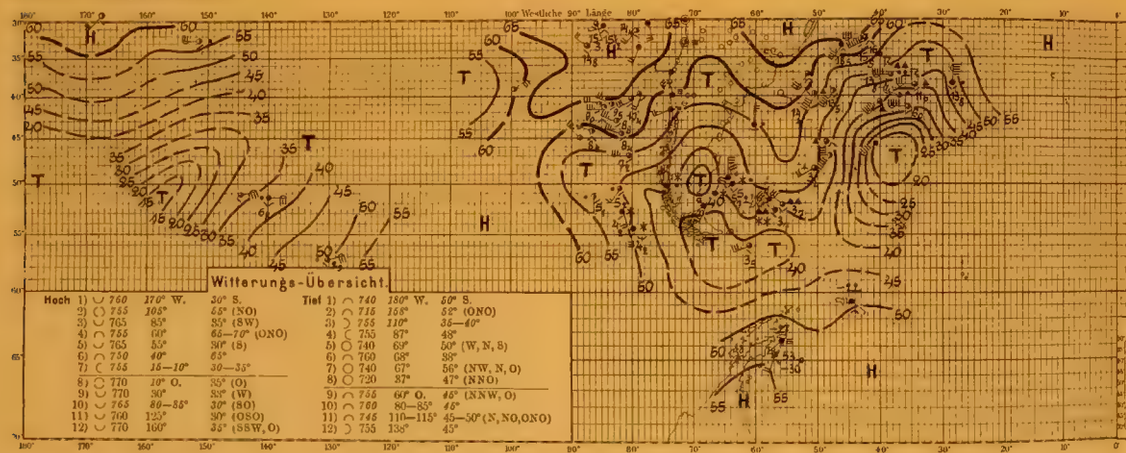
31. August—2. September 1903.

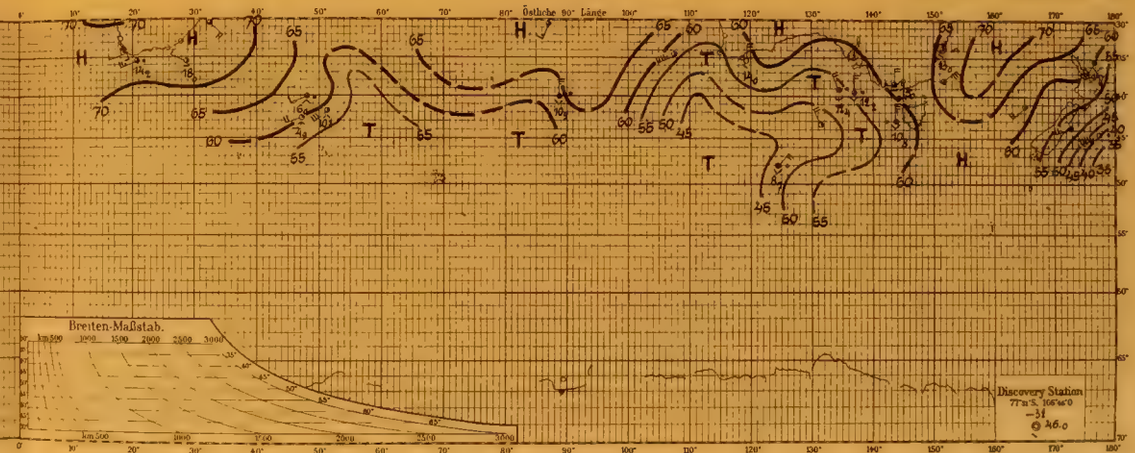
Nr. 751. 31. August 1903



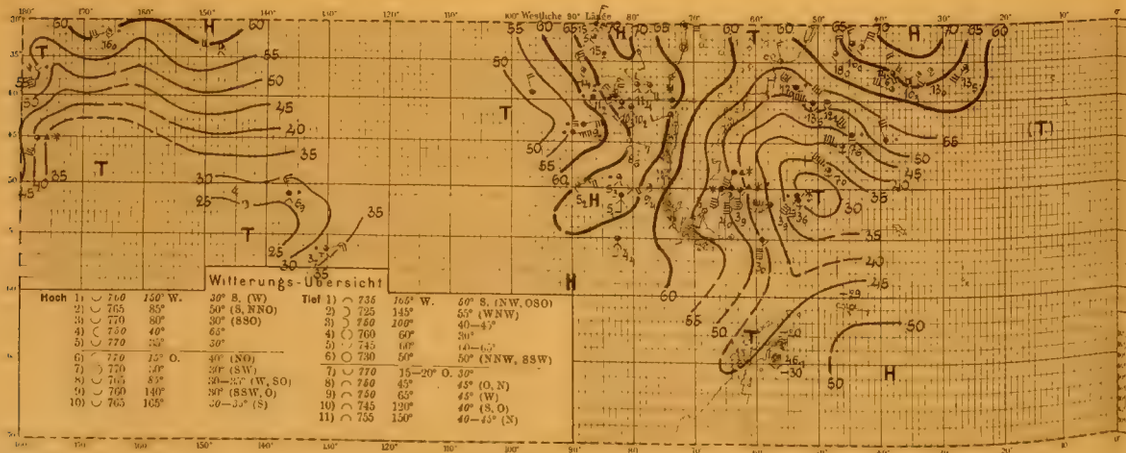


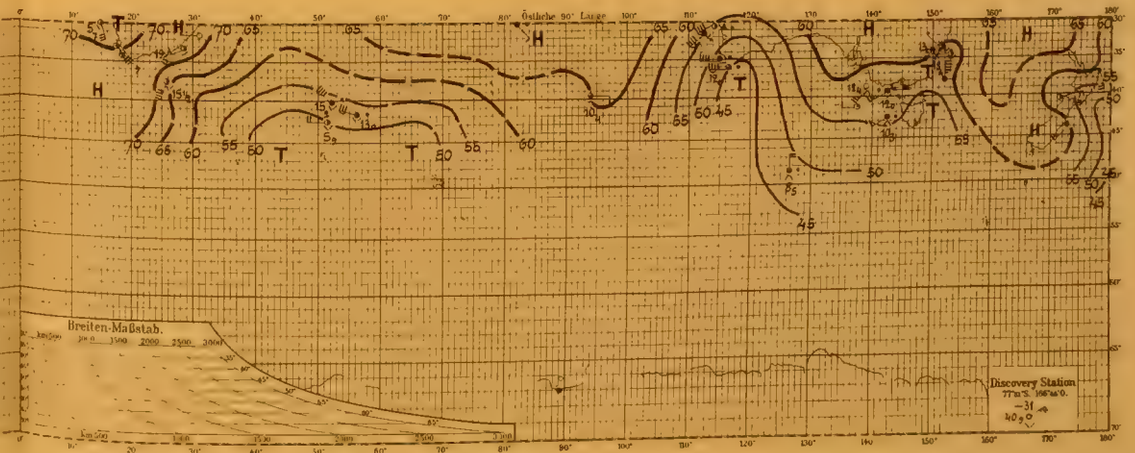
Nr. 752. 1. September 1903





Nr. 753. 2. September 1903

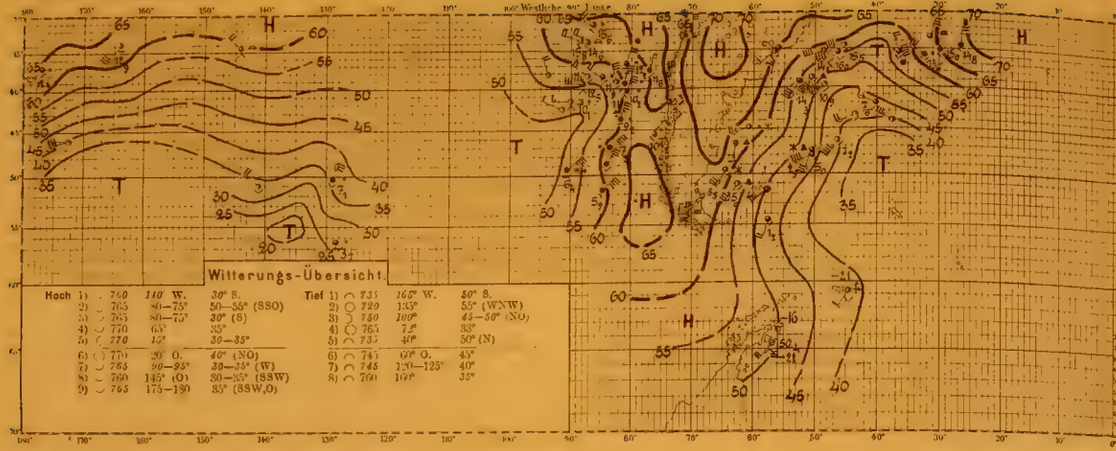




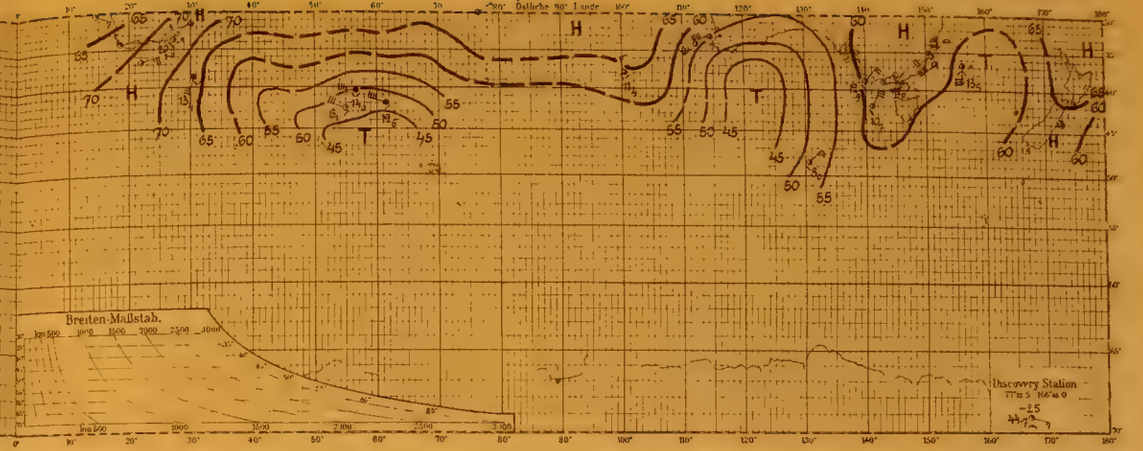
Tafel 252. Nr. 754–756.

3.—5. September 1903.

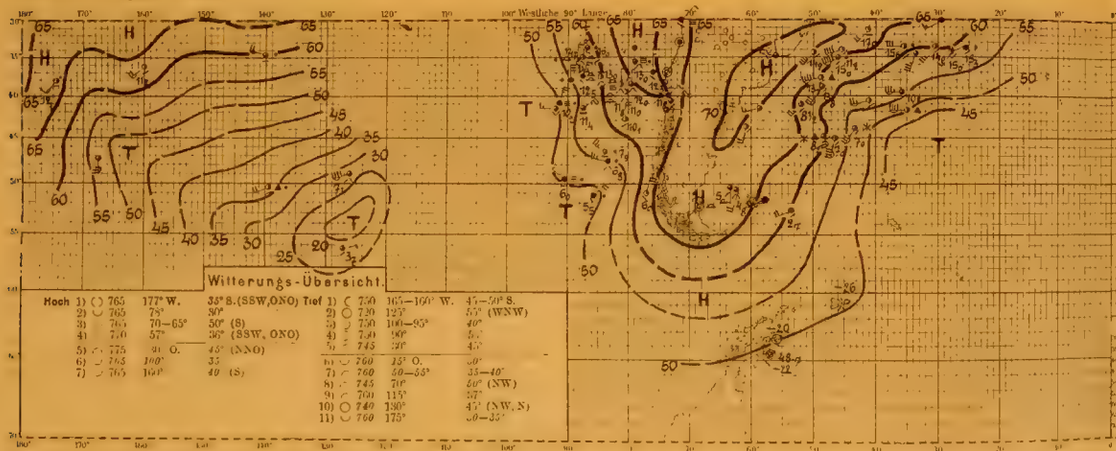
Nr. 754. 3. September 1903



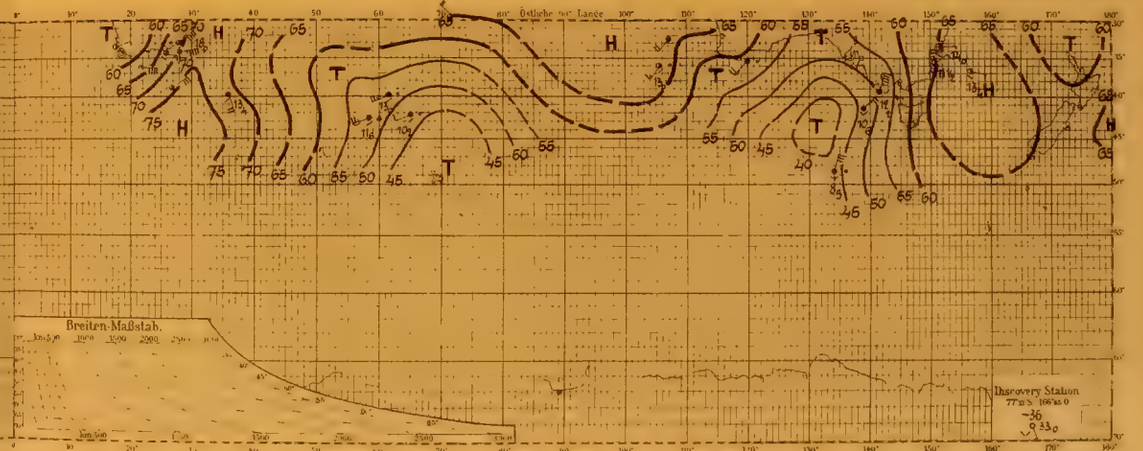
Nr. 754. 3. September 1903



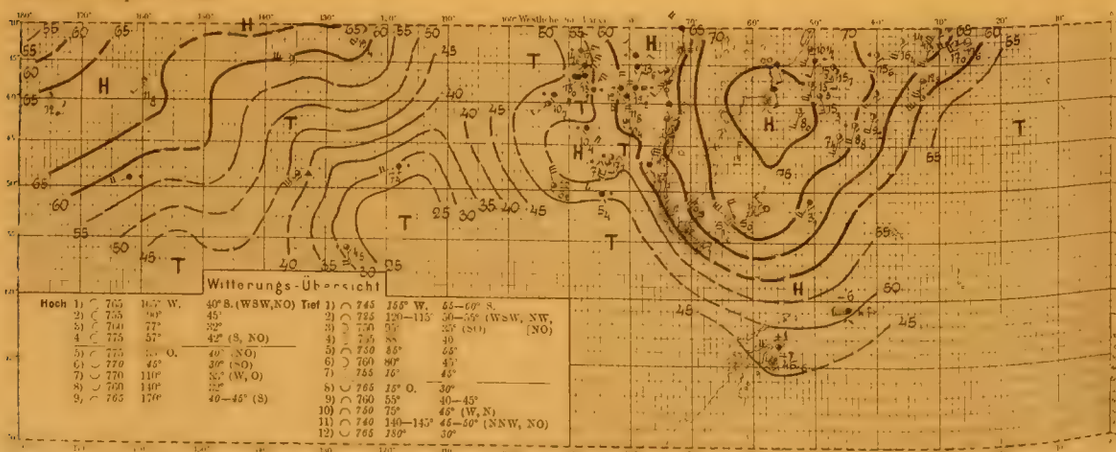
Nr. 755. 4. September 1903



Nr. 755. 4. September 1903



Nr. 756. 5. September 1903

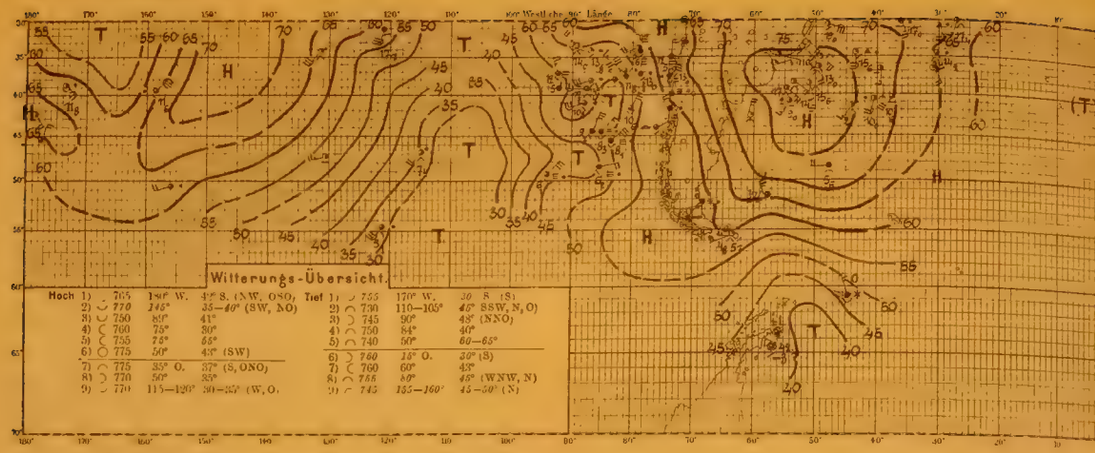


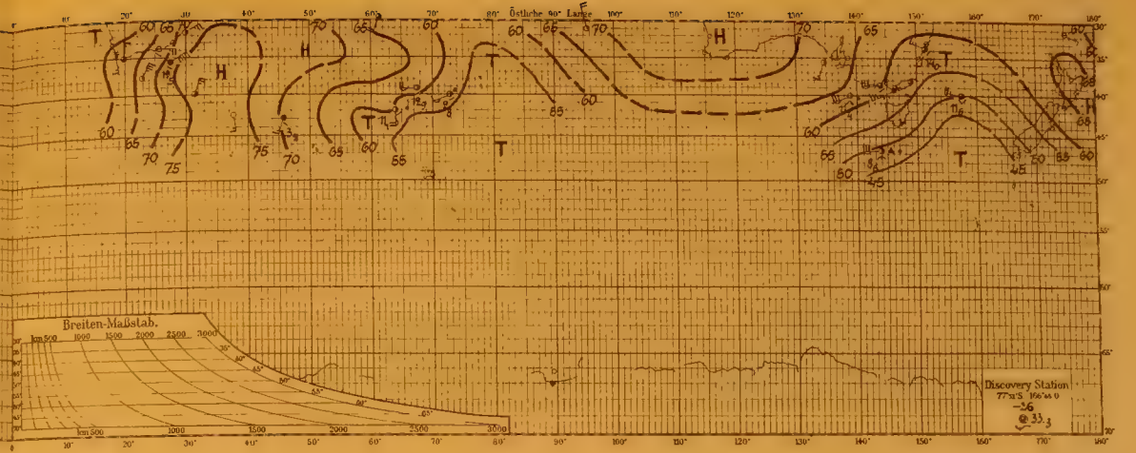
Nr. 756. 5. September 1903

Tafel 253. Nr. 757–759.

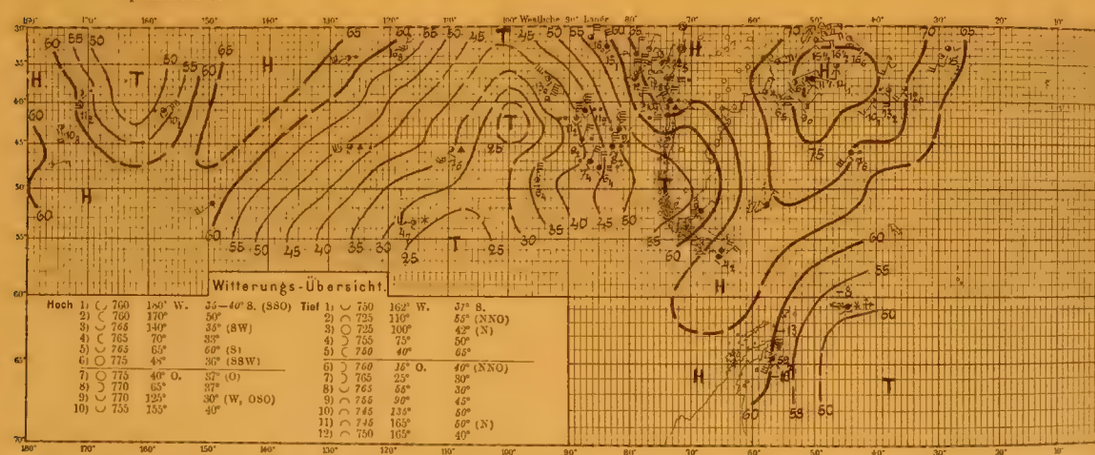
6.—8. September 1903.

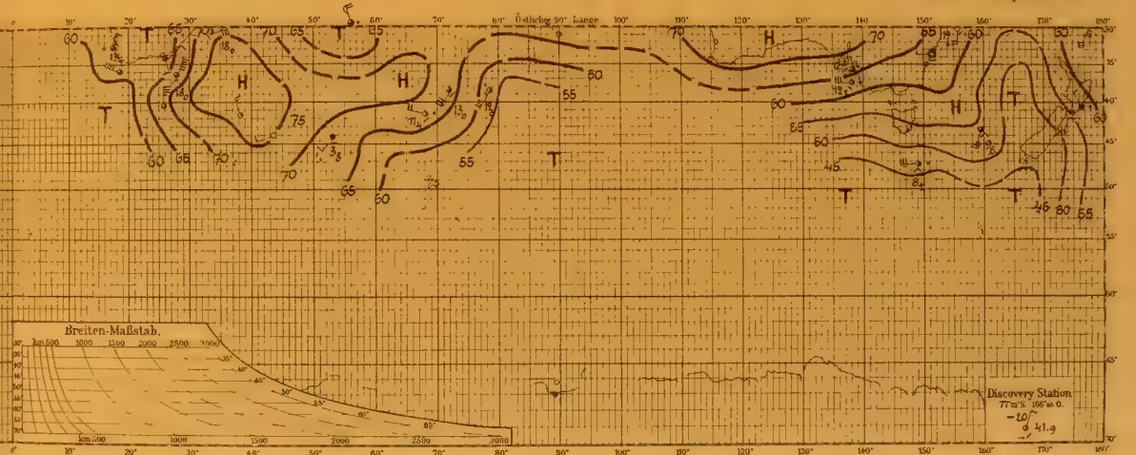
Nr. 757. 6. September 1903



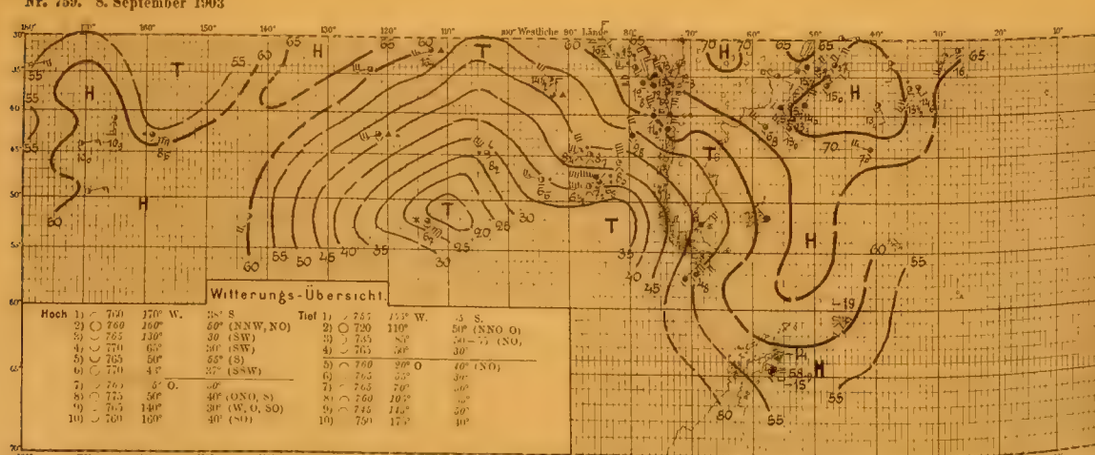


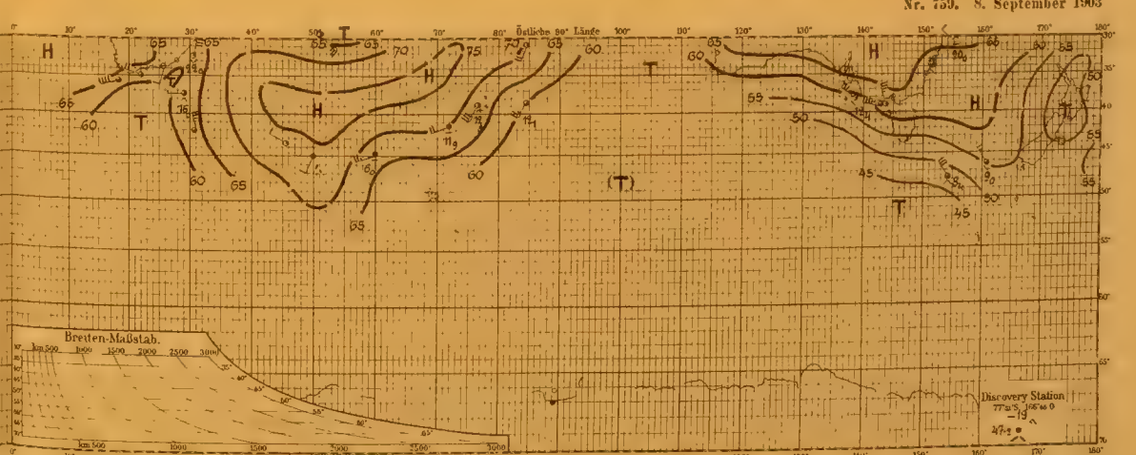
Nr. 758. 7. September 1903





Nr. 759. 8. September 1903

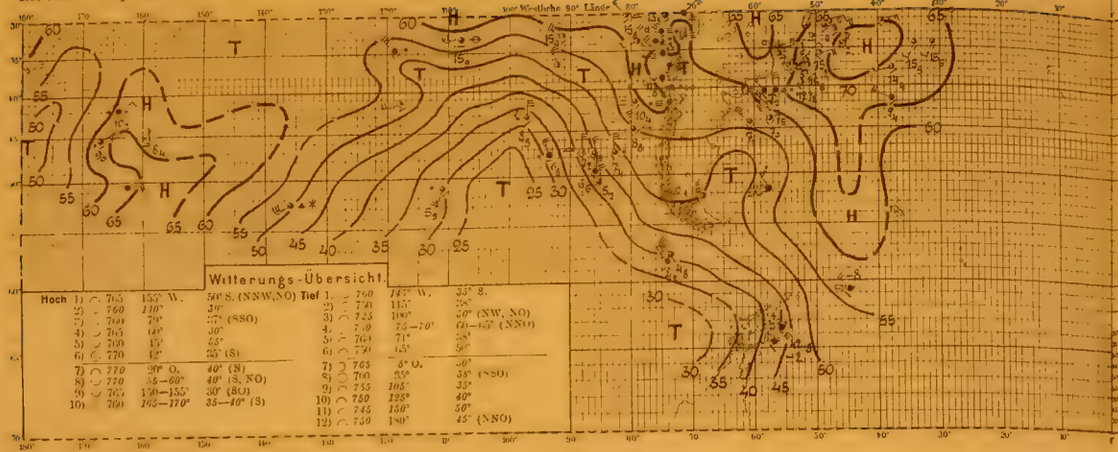




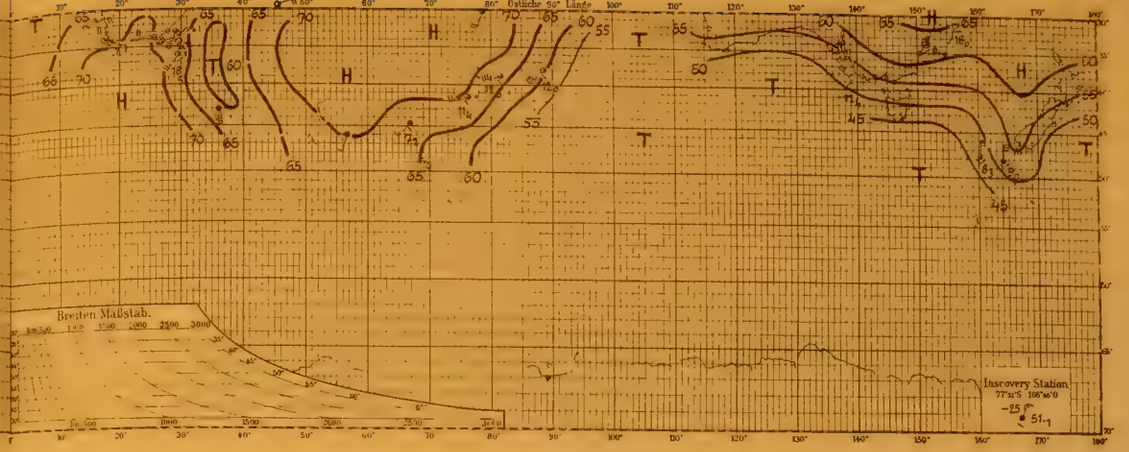
Tafel 254. Nr. 760—762.

9.—11. September 1903.

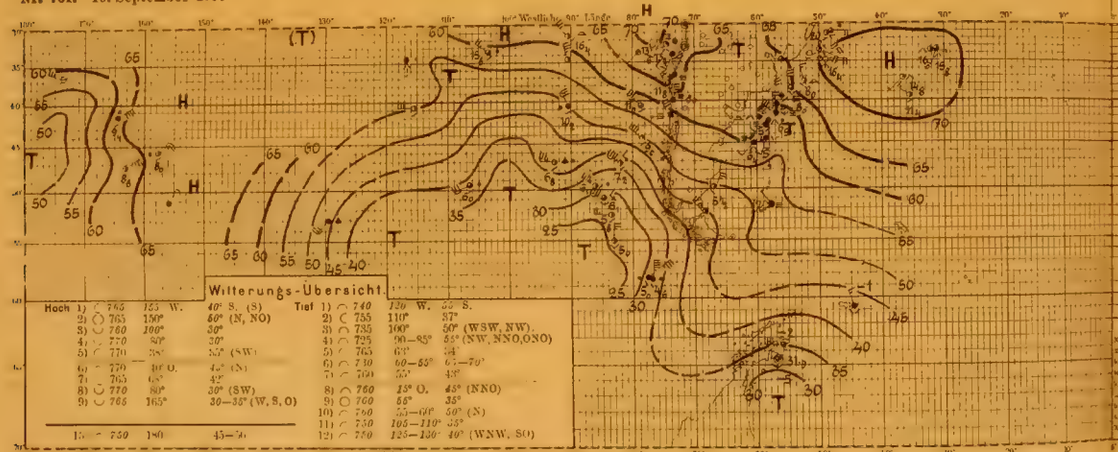
Nr. 760. 9. September 1903



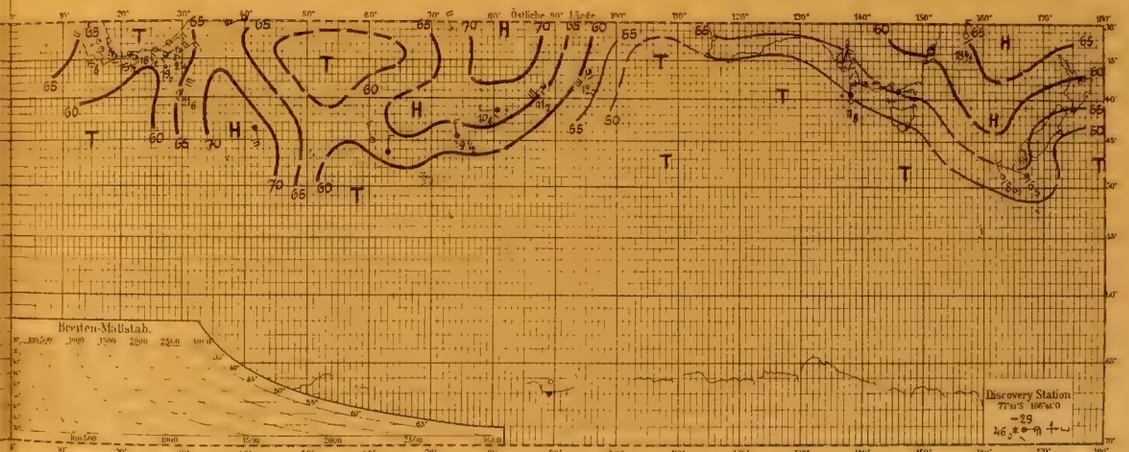
Nr. 760. 9. September 1903



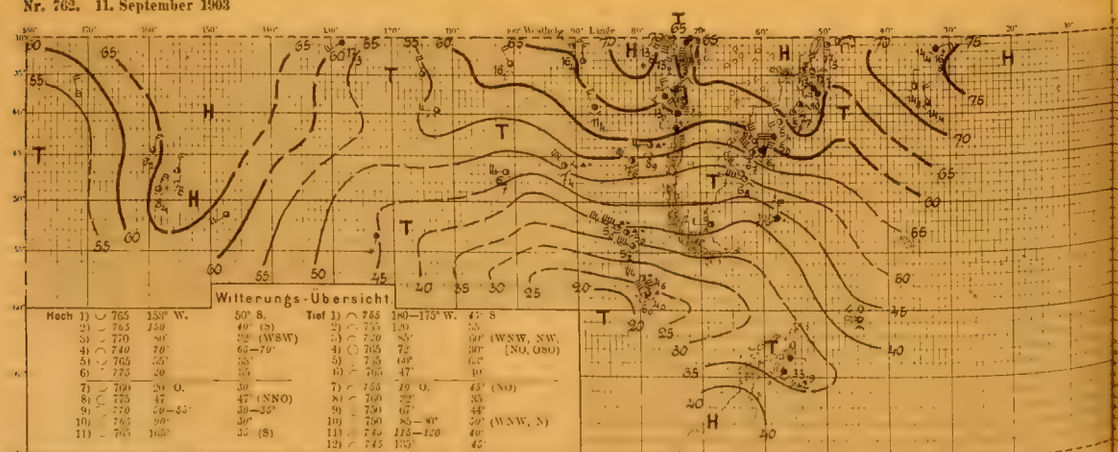
Nr. 761. 10. September 1903



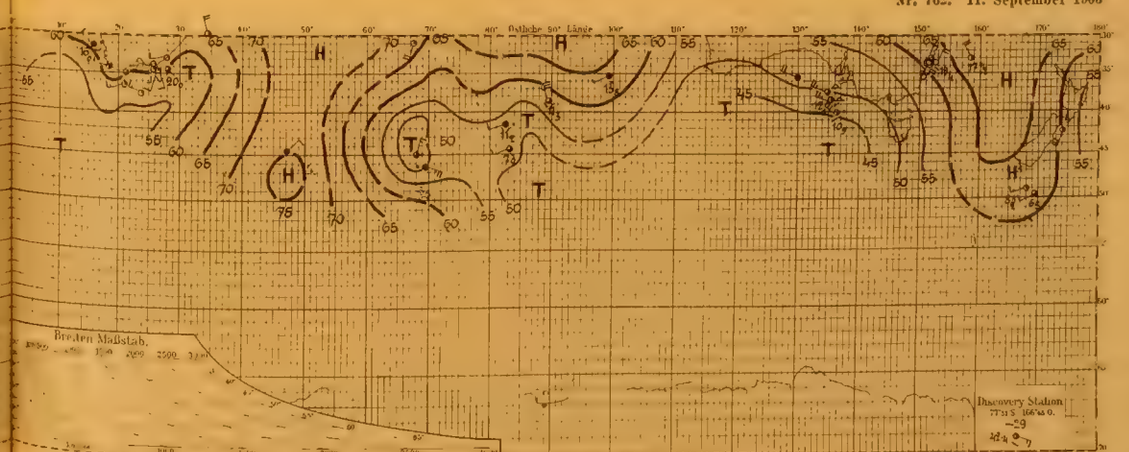
Nr. 761. 10. September 1903



Nr. 762. 11. September 1903



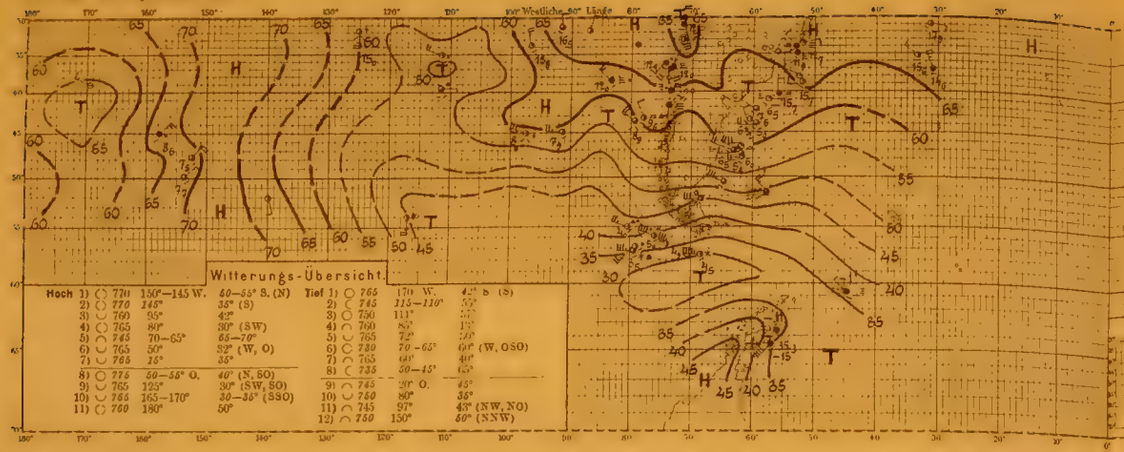
Nr. 762. 11. September 1903

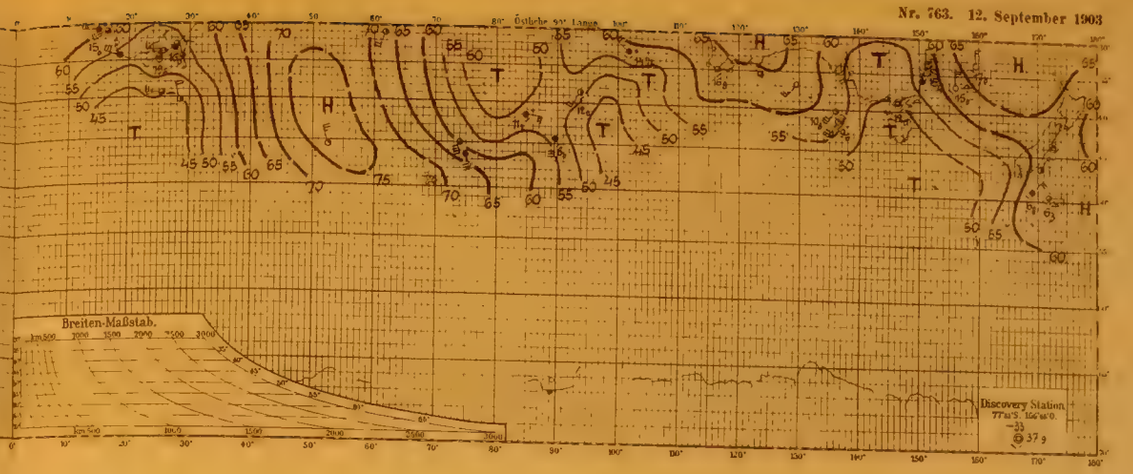


Tafel 255. *Nr. 763—765.*

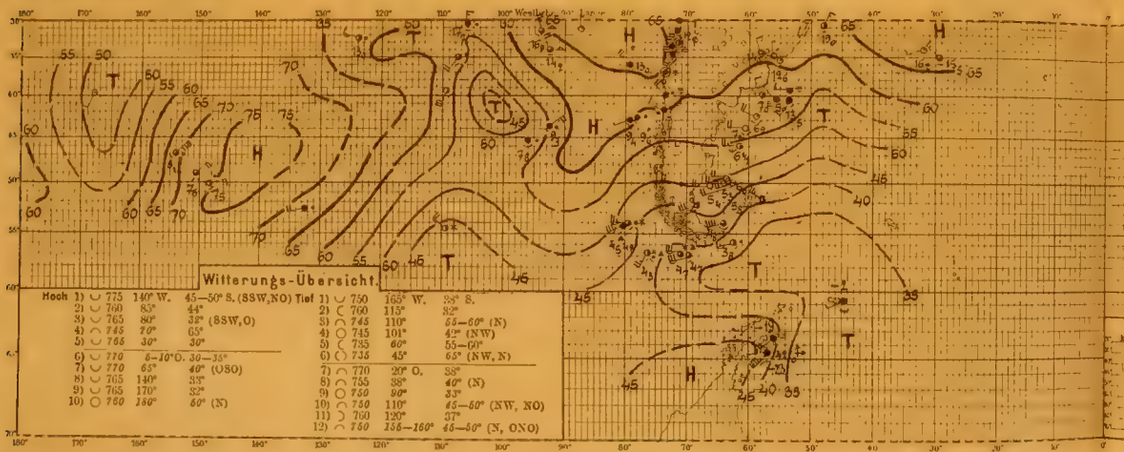
12.—14. September 1903.

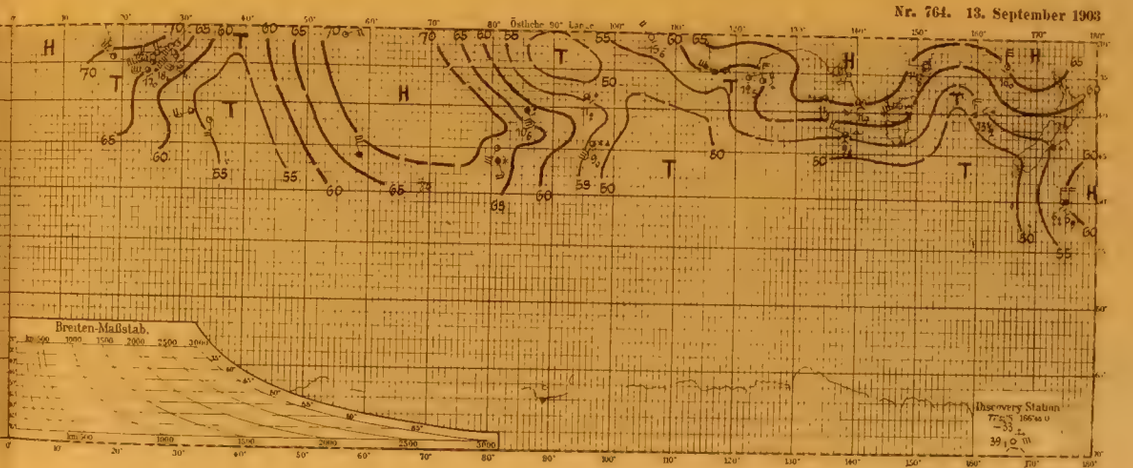
Nr. 763. 12. September 1903



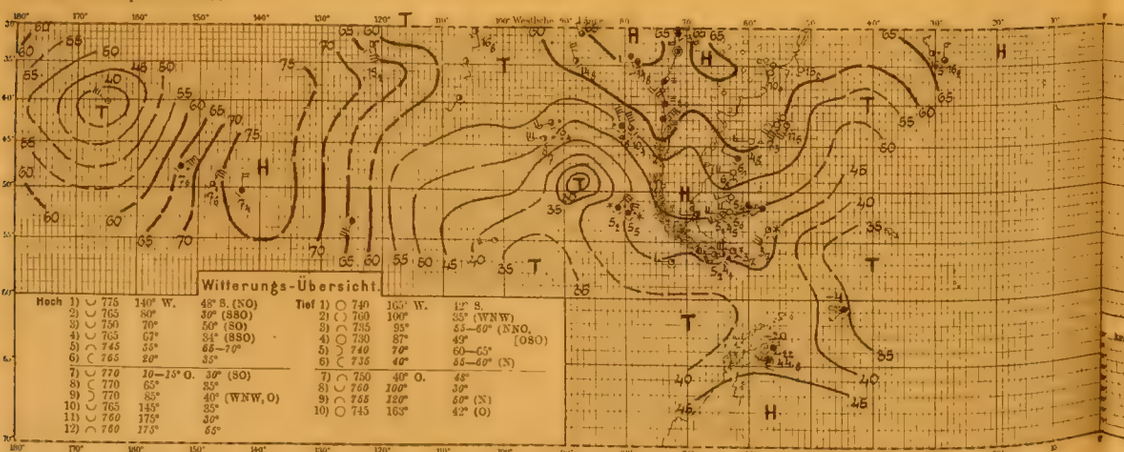


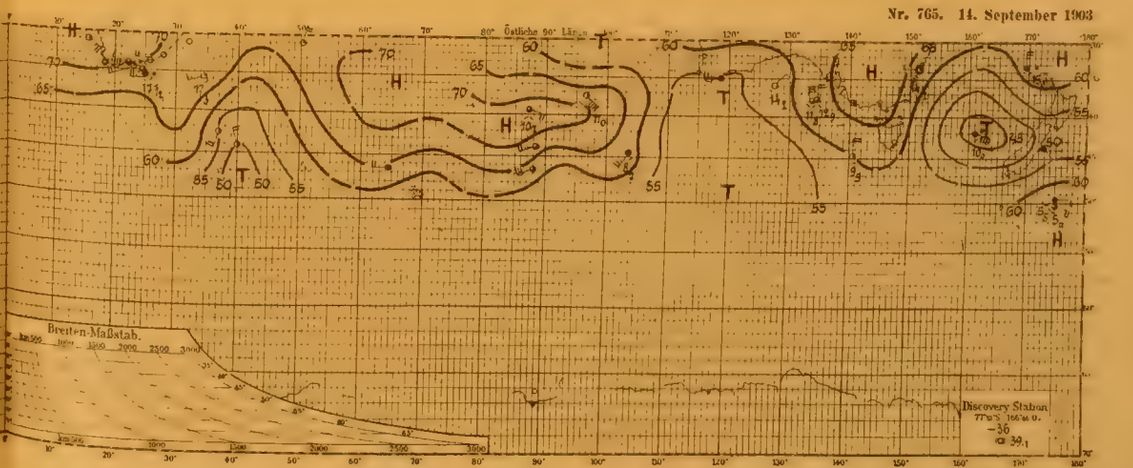
Nr. 764. 13. September 1903





Nr. 765. 14. September 1903

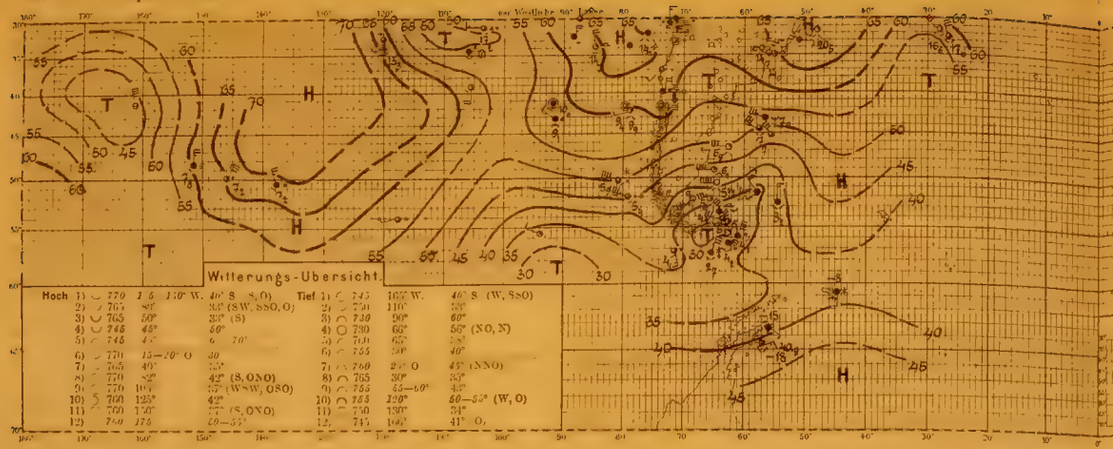




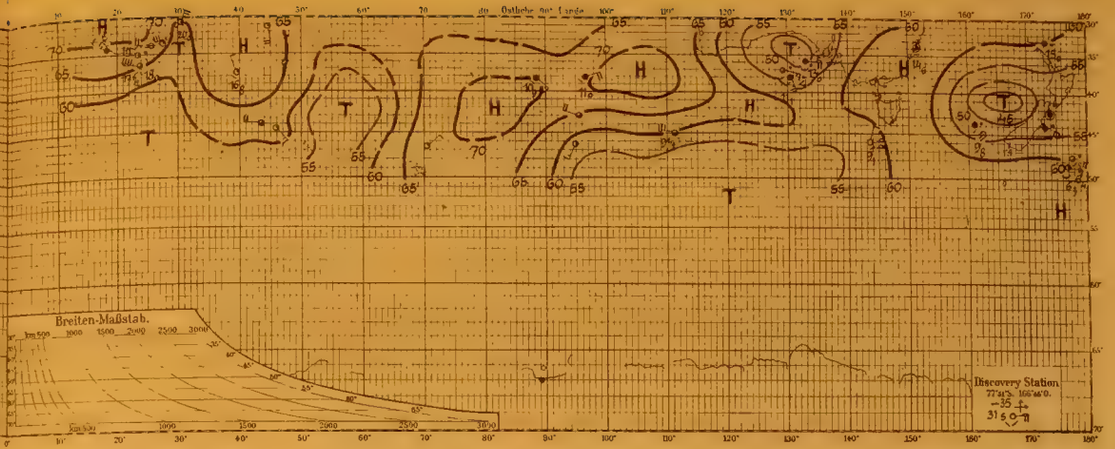
Tafel 256. *Nr. 766—768.*

15.—17. September 1903.

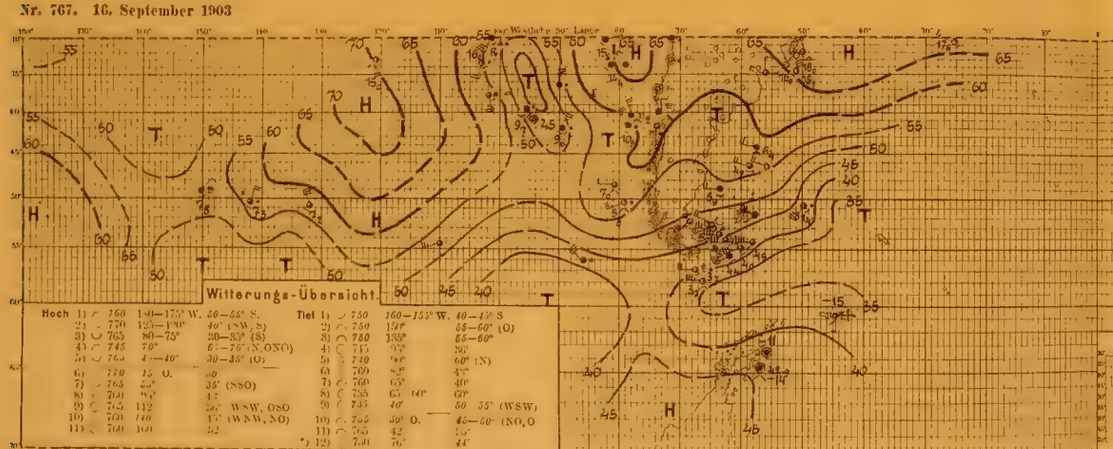
Nr. 766. 15. September 1903



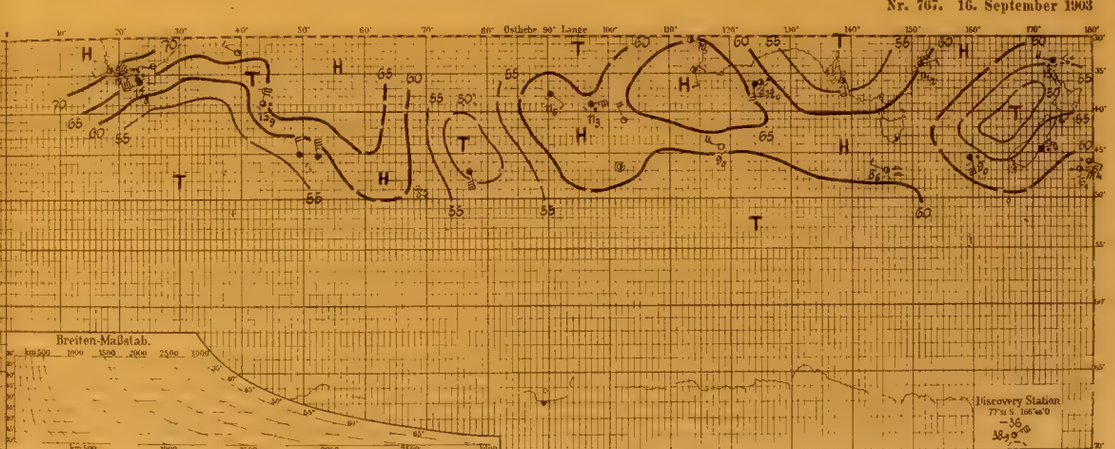
Nr. 766. 15. September 1903



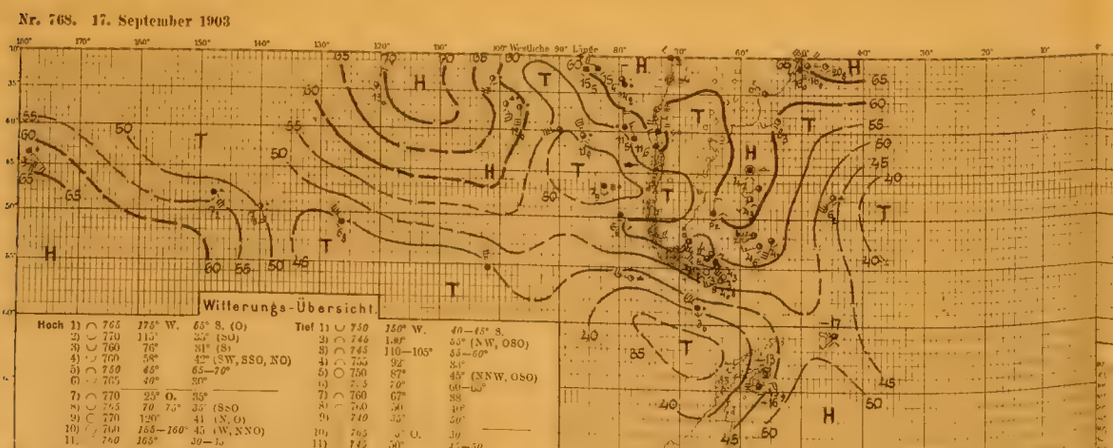
Nr. 767. 16. September 1903



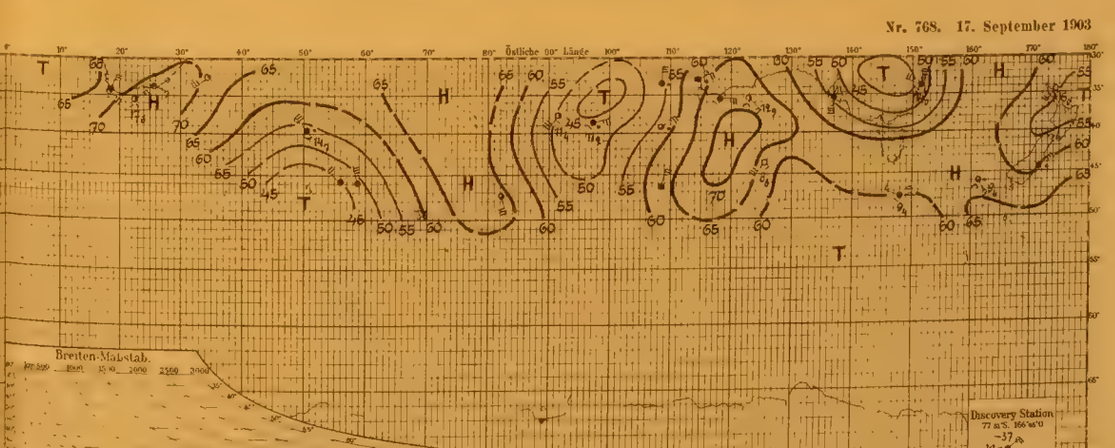
Nr. 767. 16. September 1903



Nr. 768. 17. September 1903



Nr. 768. 17. September 1903



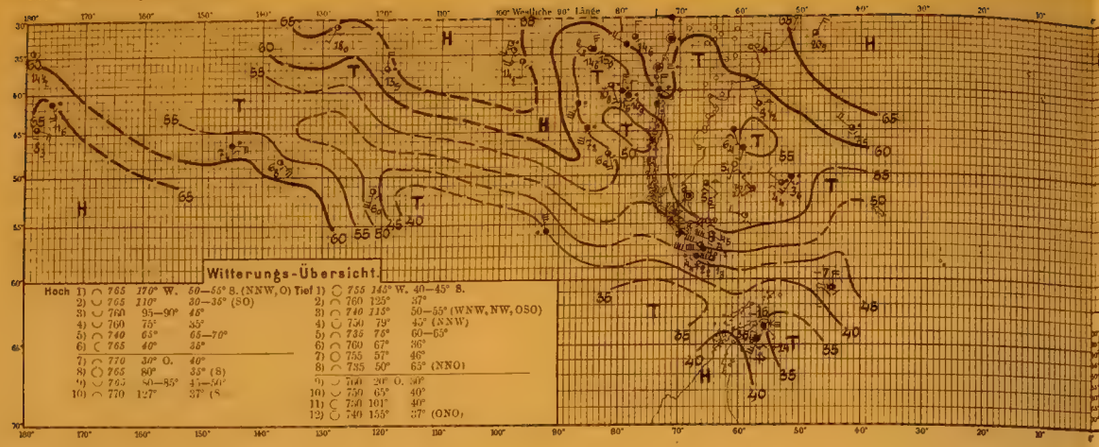
*) 16. September: Tief 13) 760 95° 30°
14) 760 125° 50—55°
15) 735 140° 30°
16) 750 167° 40° (O)

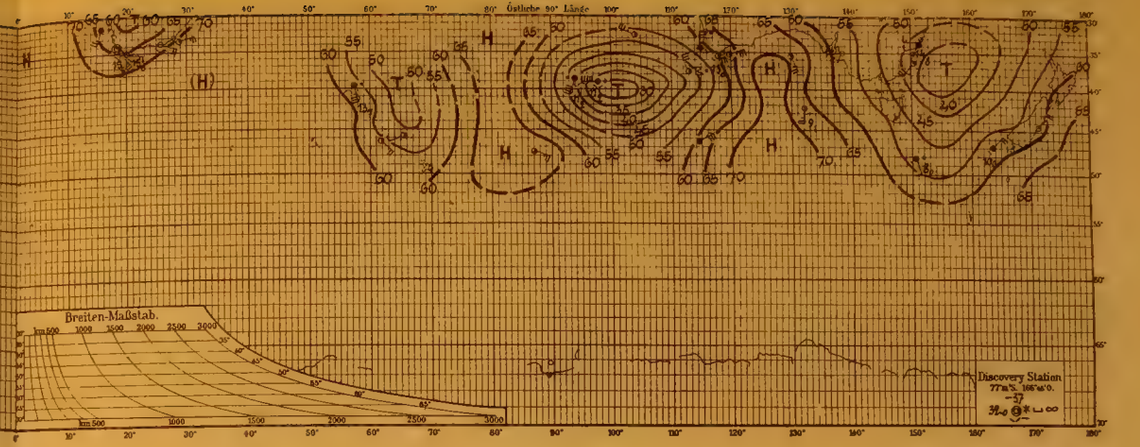
**) 17. September: Tief 13) 760 140° 60—65°
14) 745 145° 25°
15) 755 136° 15° (O)

Tafel 257. Nr. 769—771.

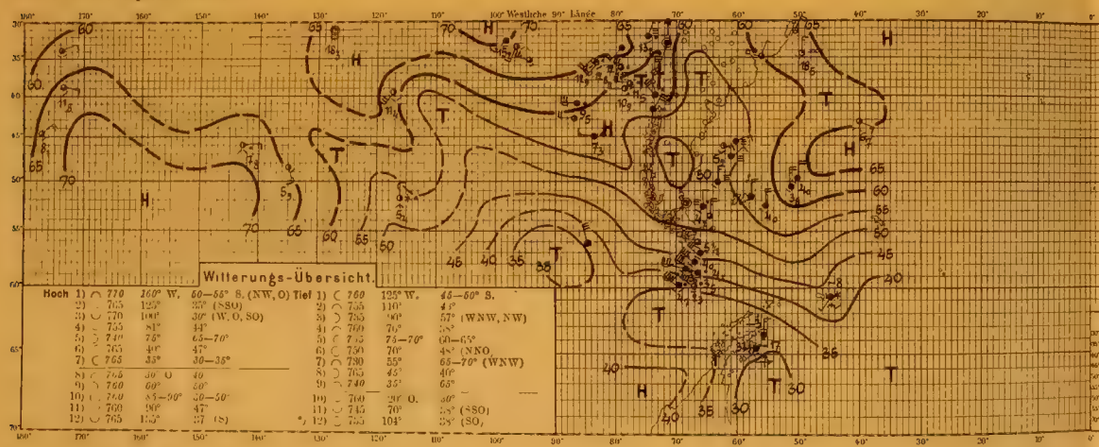
18.—20. September 1903.

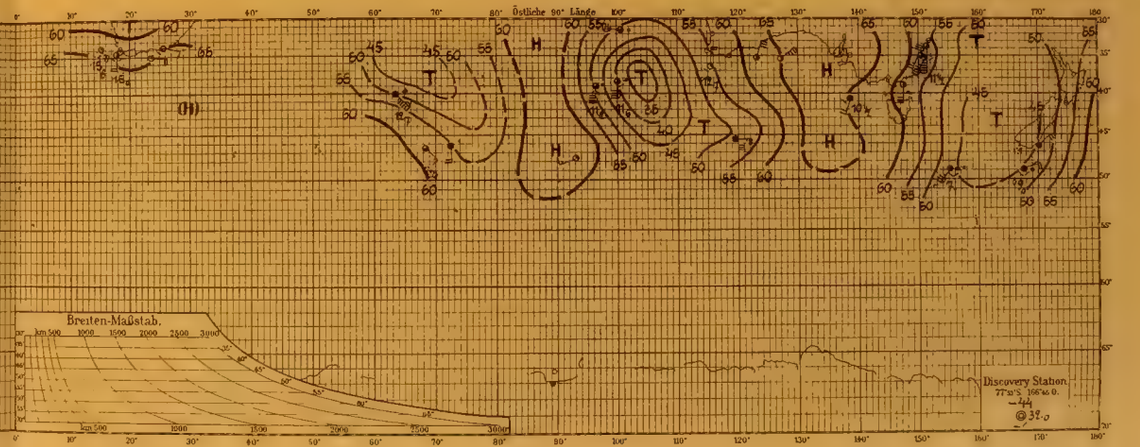
Nr. 769. 18. September 1903



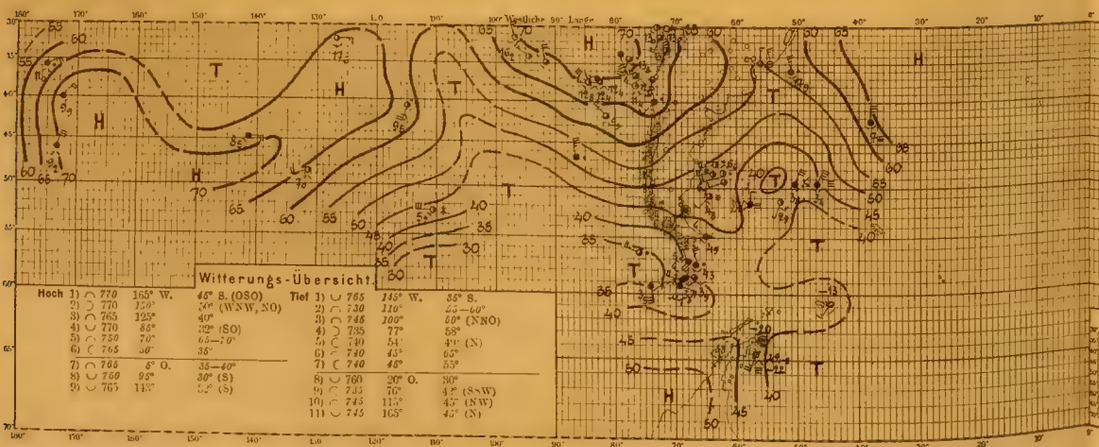


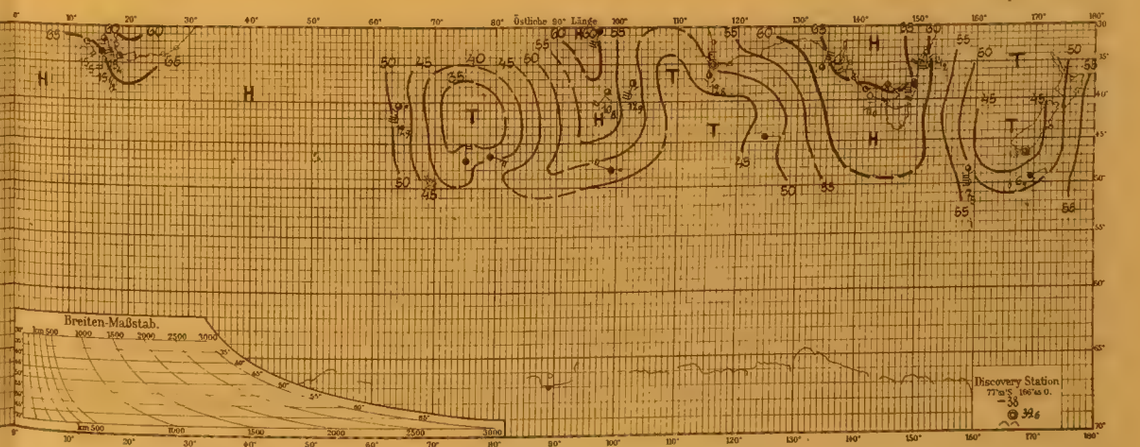
Nr. 770. 19. September 1903





Nr. 771. 20. September 1903



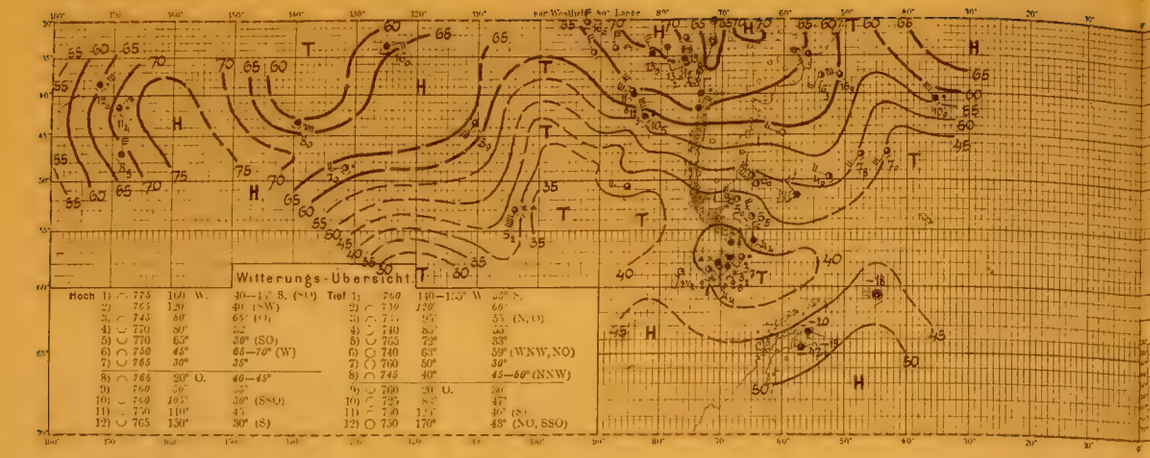


*) 19. September: Tief 13) ∪ 745 160—165° 40—45° (NNW)

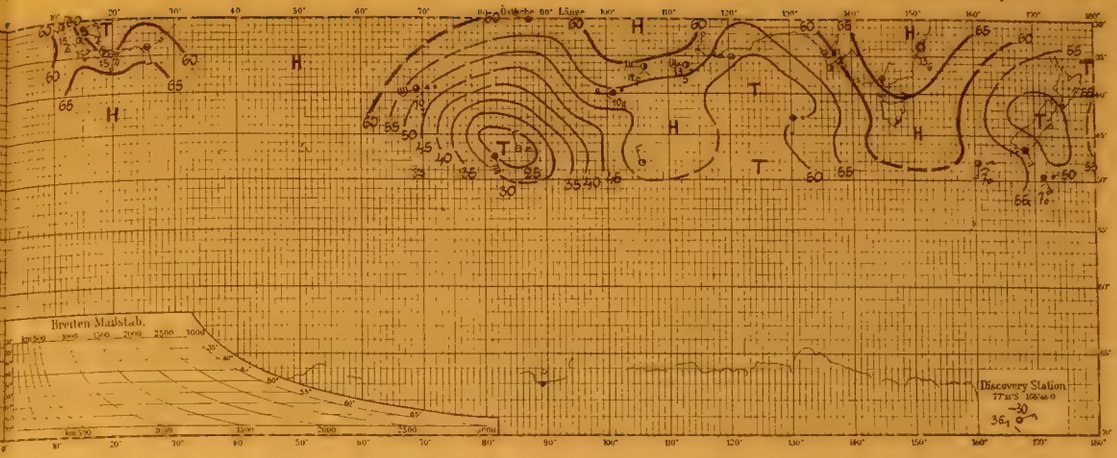
Tafel 258. Nr. 772—774.

21.—23. September 1903.

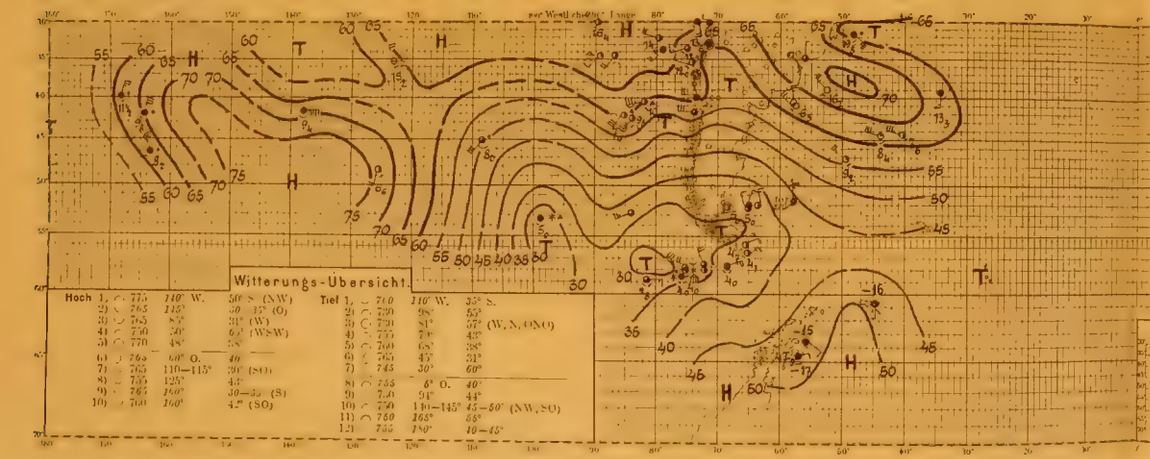
Nr. 772. 21. September 1903



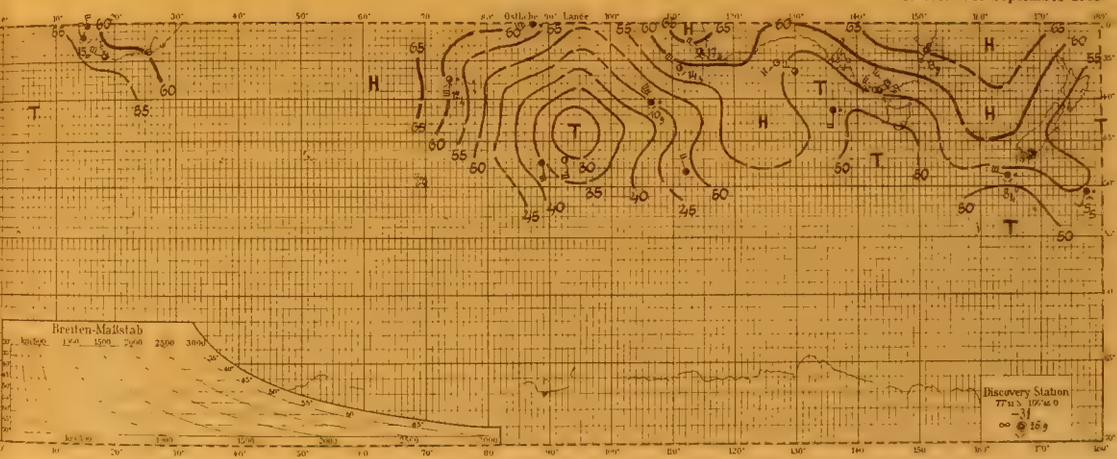
Nr. 772. 21. September 1903



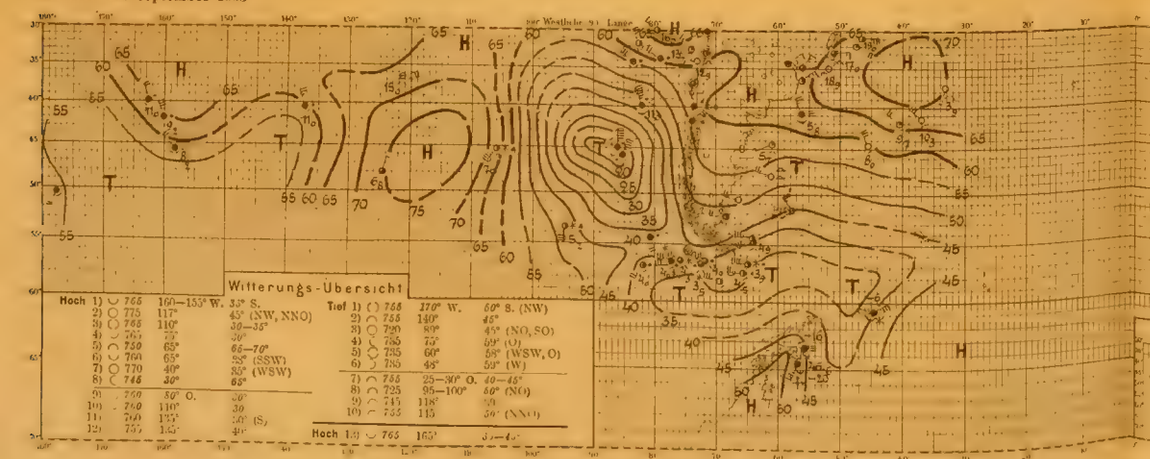
Nr. 773. 22. September 1903



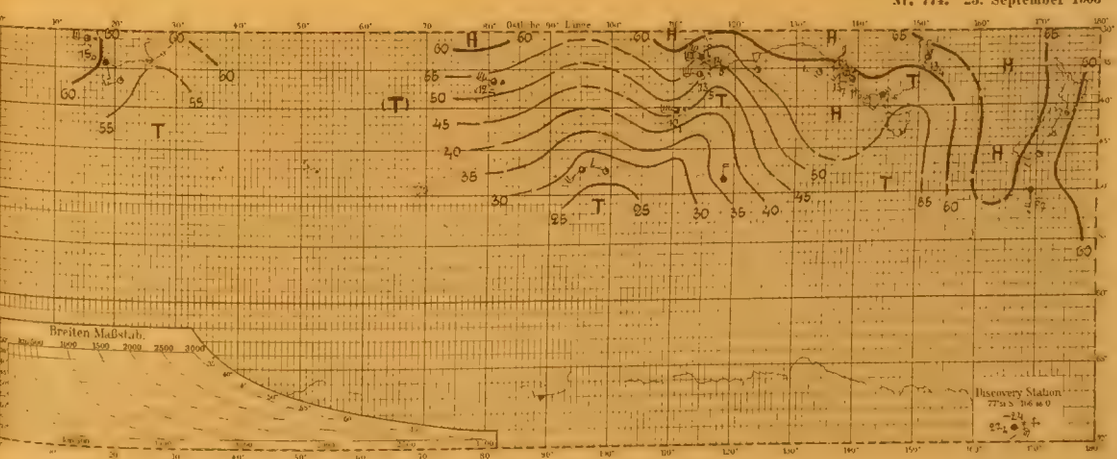
Nr. 773. 22. September 1903



Nr. 774. 23. September 1903



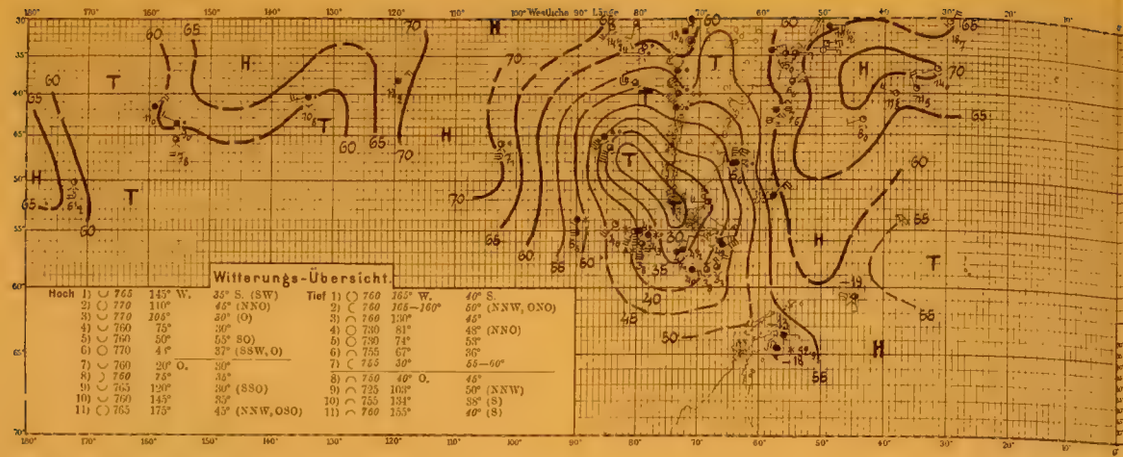
Nr. 774. 23. September 1903

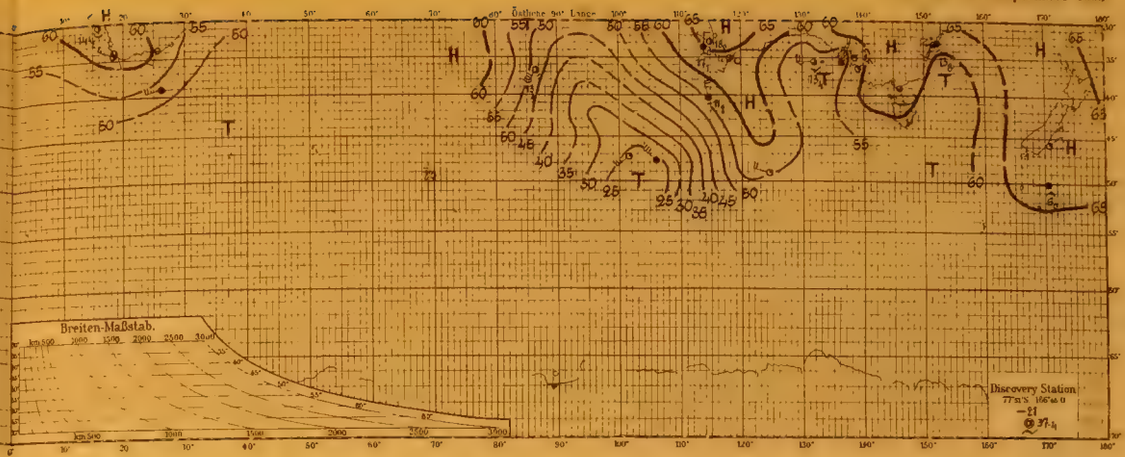


Tafel 259. Nr. 775—777.

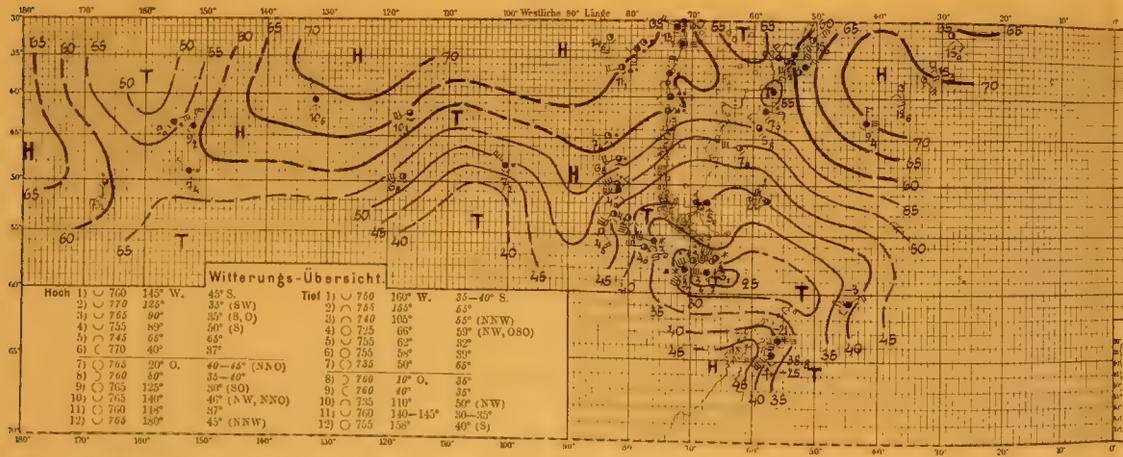
24.—26. September 1903.

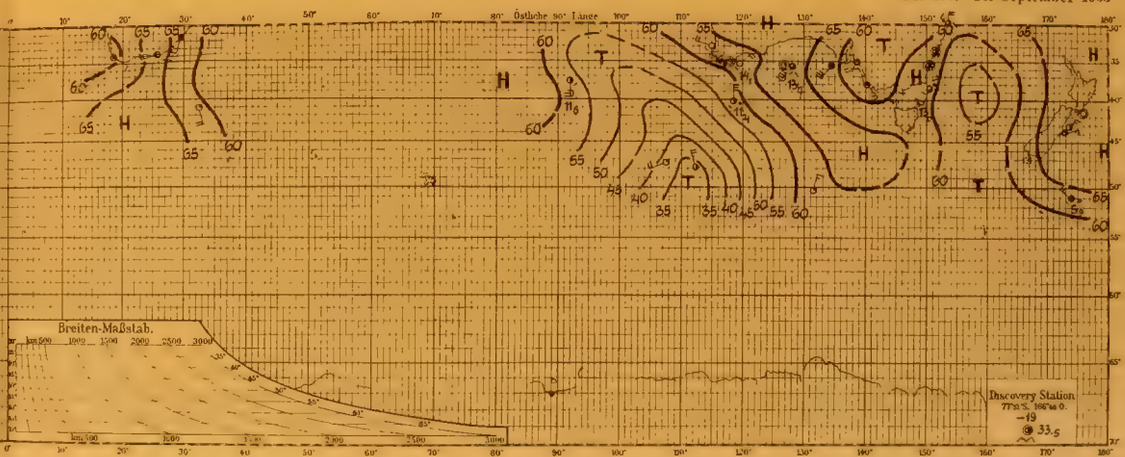
Nr. 775. 24. September 1903



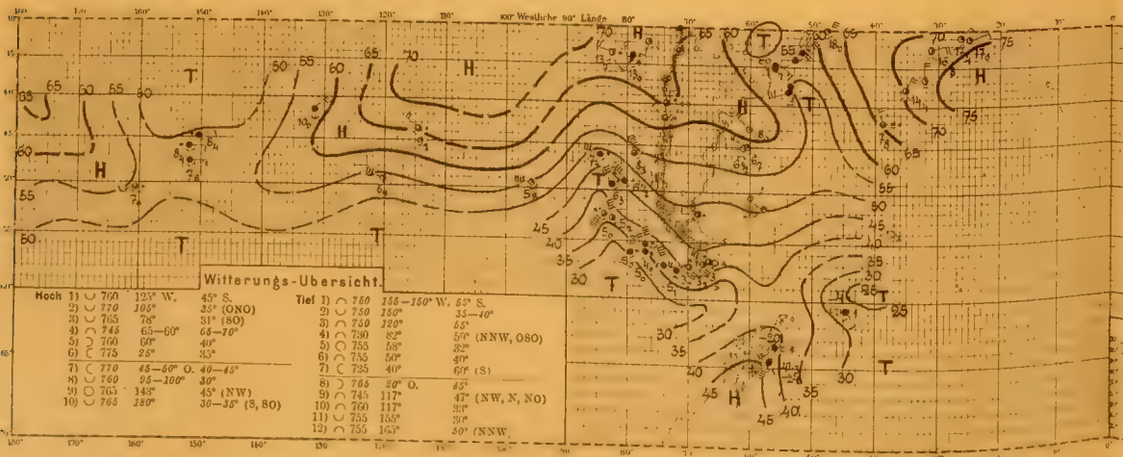


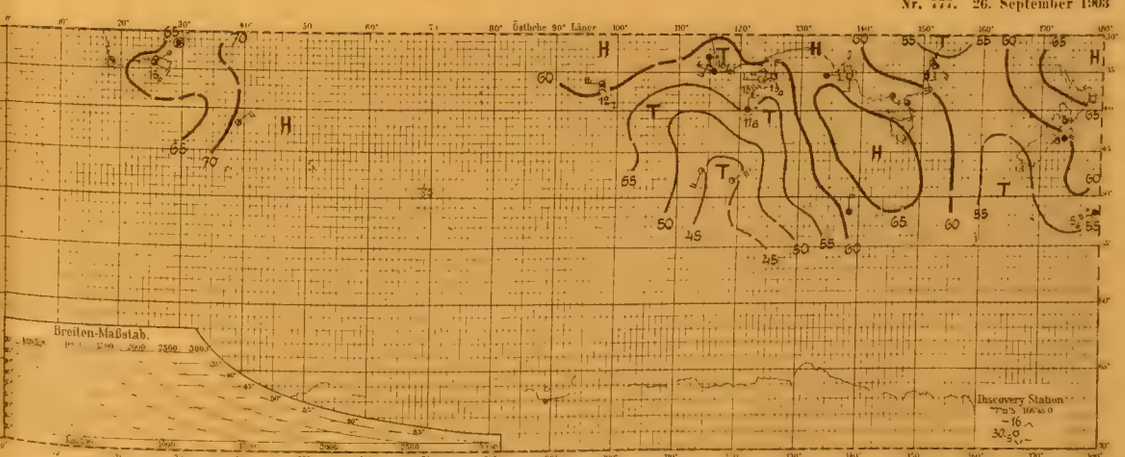
Nr. 776. 25. September 1903





Nr. 777. 26. September 1903



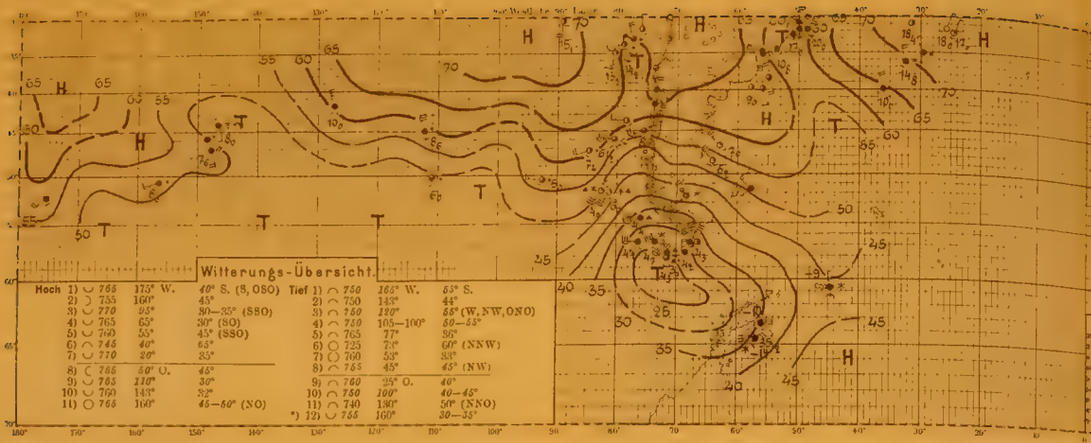


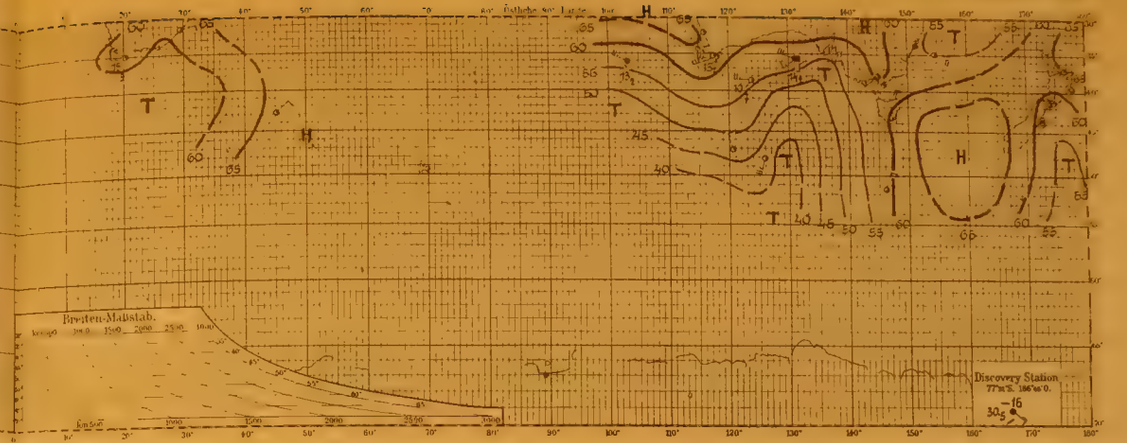
Tafel 260. *Nr. 778—780.*

27.—29. September 1903.

BIOLOGICAL LABORATORY
WOODS HOLE
MASS.

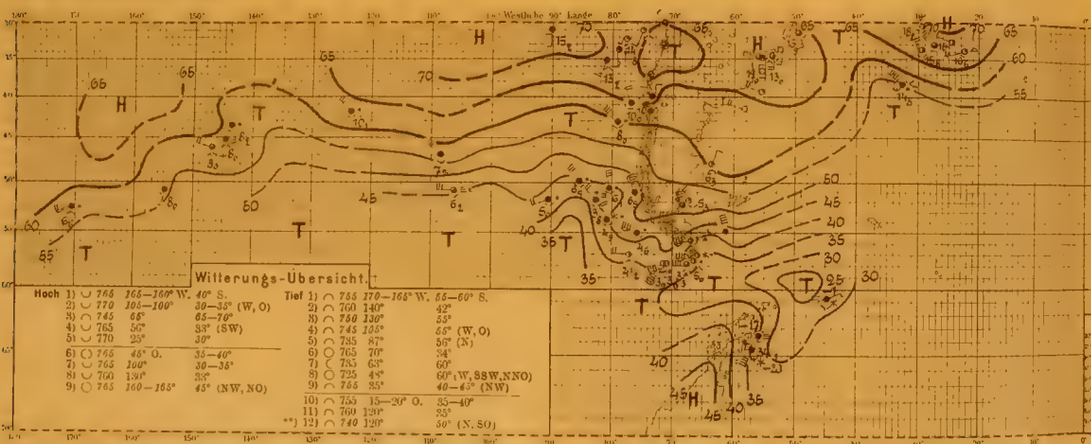
Nr. 778. 27. September 1903

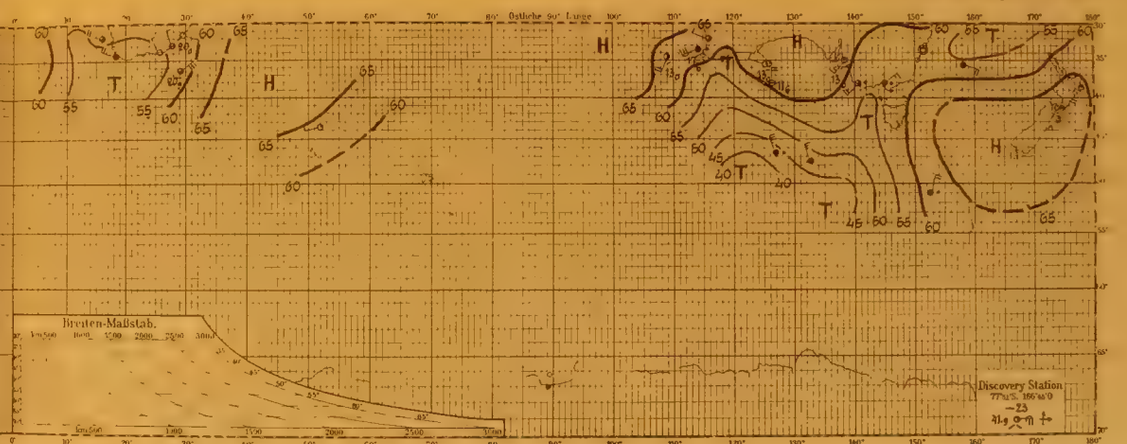




Nr. 778. 27. September 1903

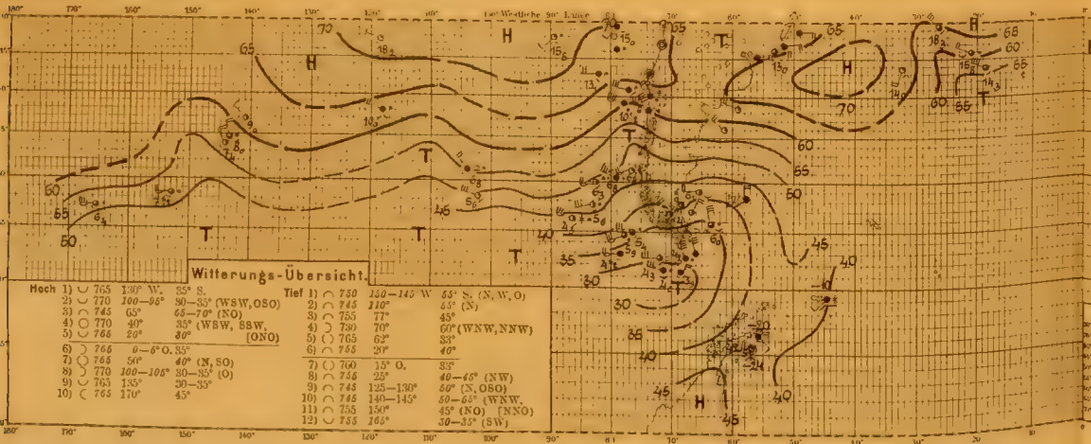
Nr. 779. 28. September 1903

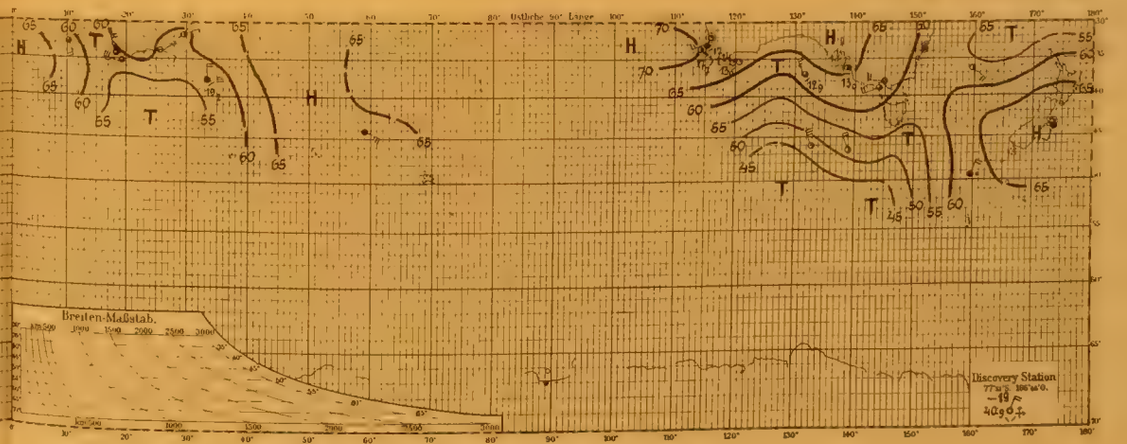




Nr. 779. 28. September 1903

Nr. 780. 29. September 1903





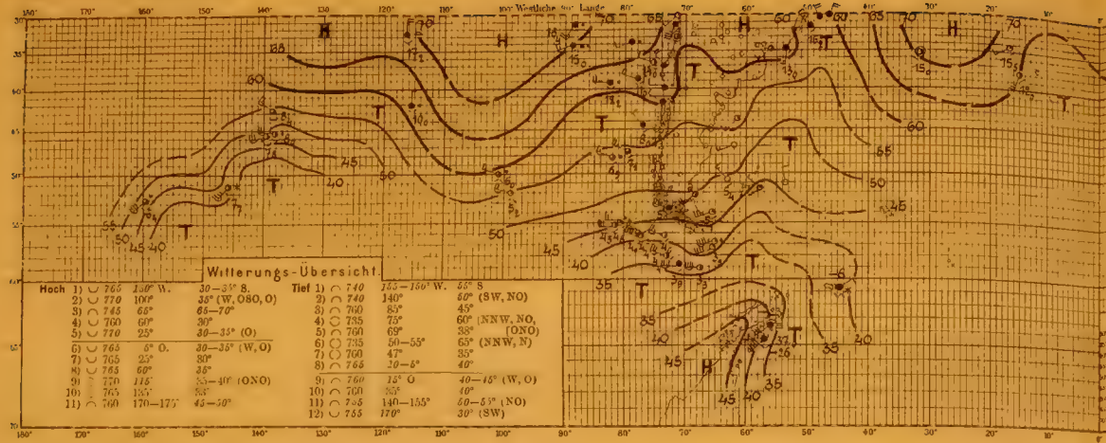
Nr. 780. 29. September 1903

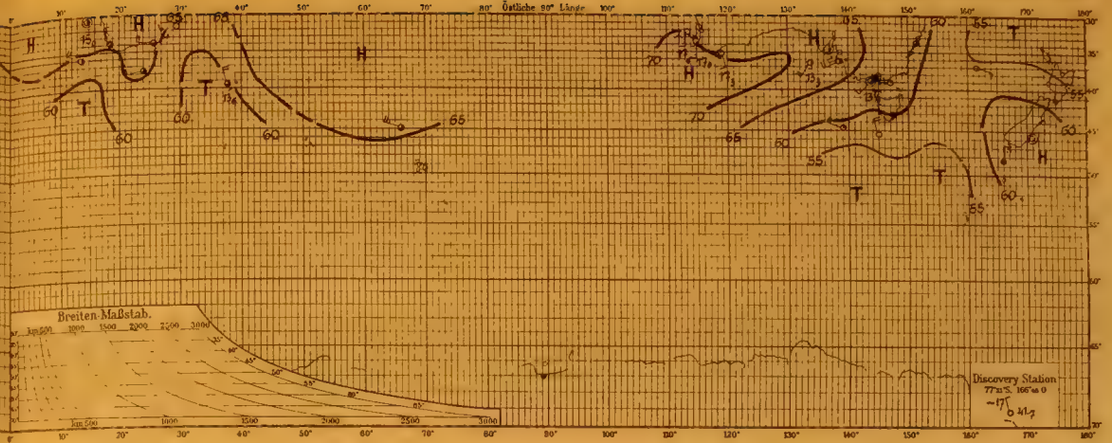
*) 27. September: Tief 13) ∩ 765 175—180° 50°
**) 28. September: Tief 13) ∩ 745 135° 50—55° (NW, NNO)
14) ∩ 755 142° 43° (SO)
15) ∪ 755 160—165° 30—35° (WSW)

Tafel 261. Nr. 781—783.

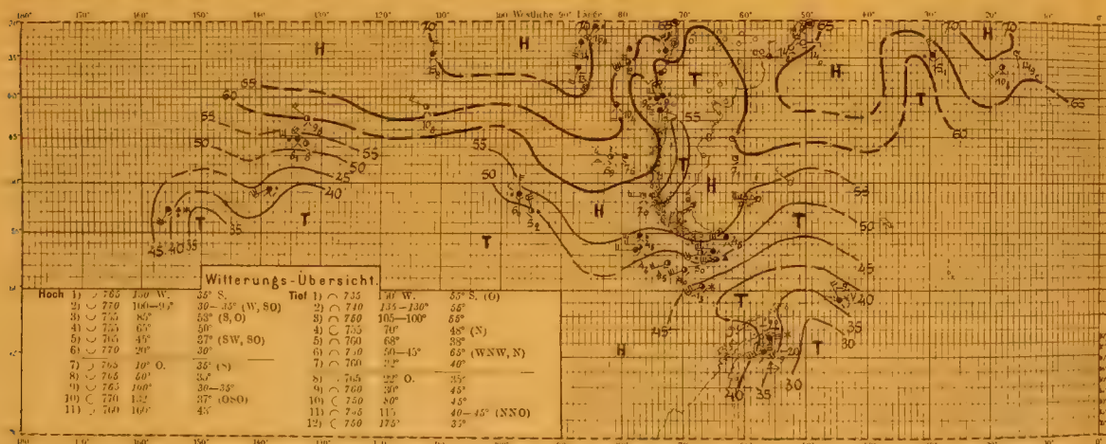
30. September—2. Oktober 1903.

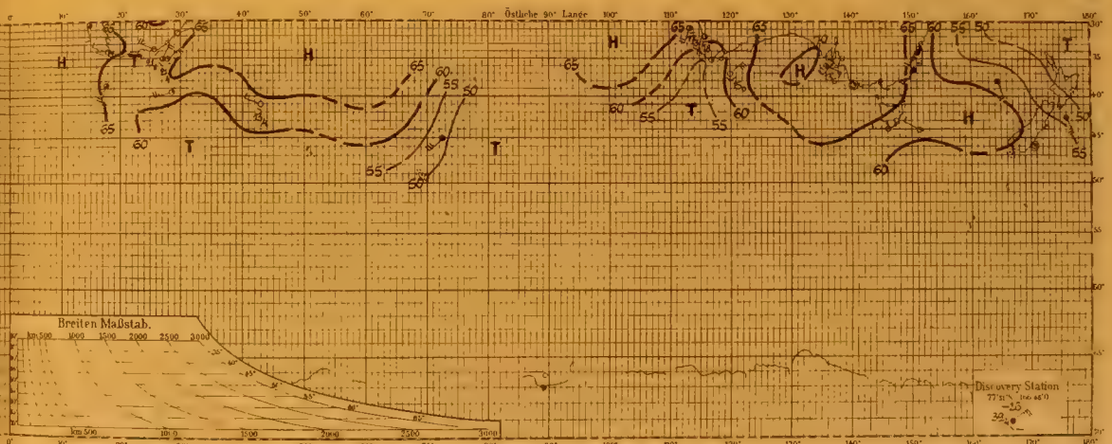
Nr. 781. 30. September 1903



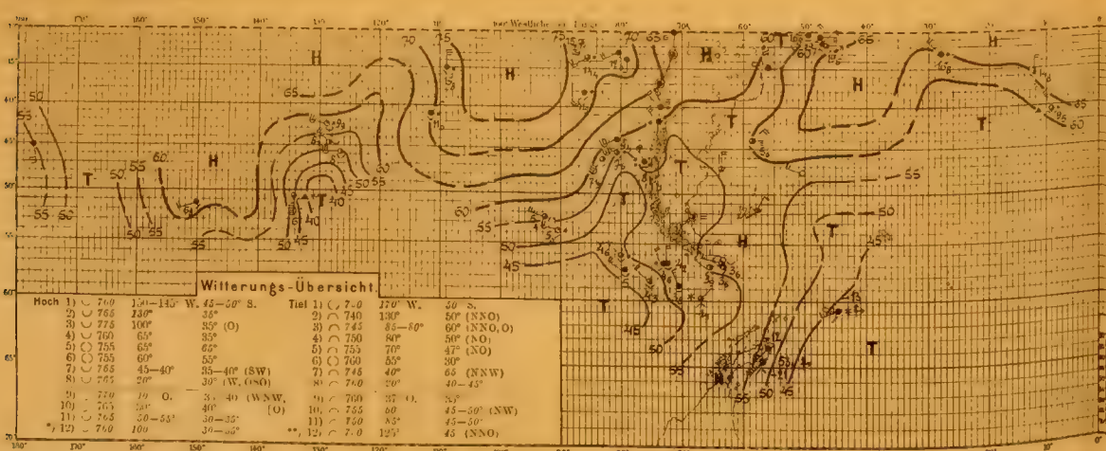


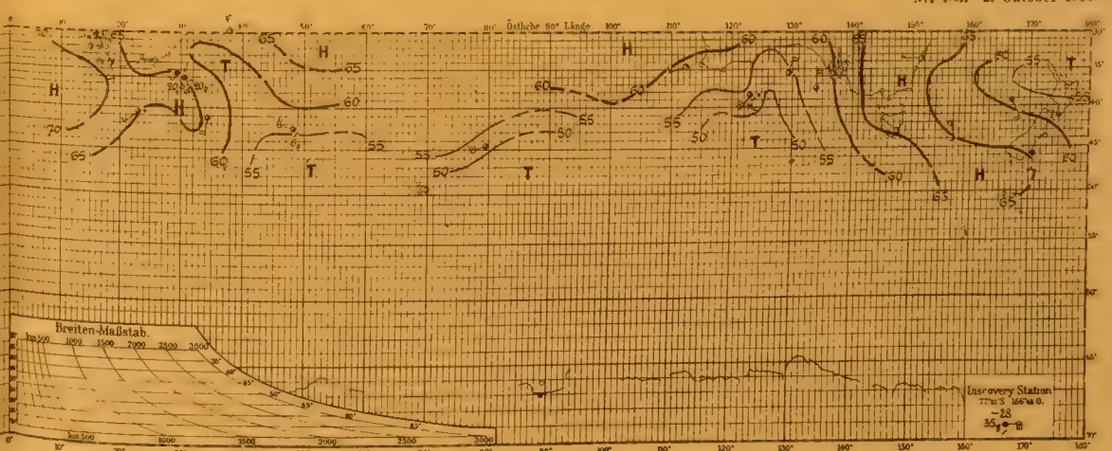
Nr. 782. 1. Oktober 1903





Nr. 783. 2. Oktober 1903



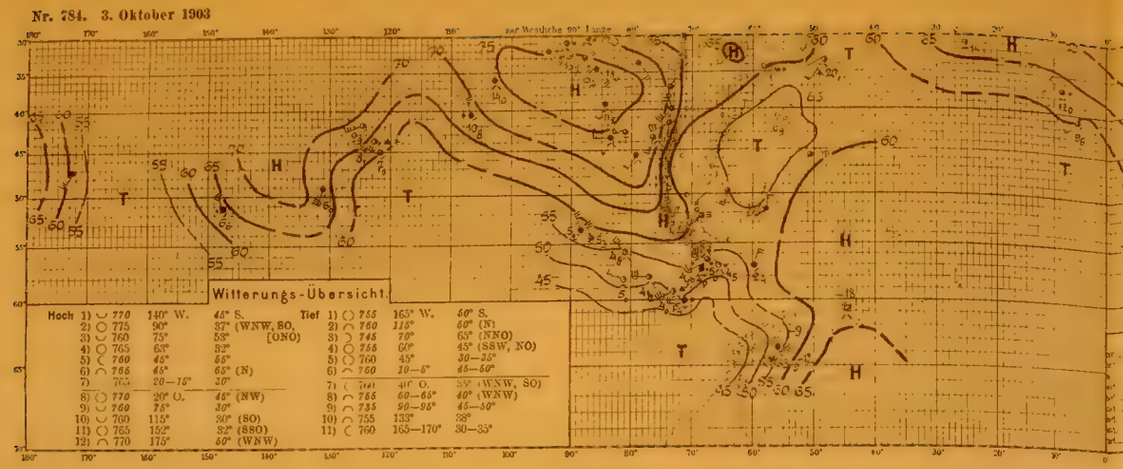


2. Oktober: *) Hoch 13) ∪ 765 148° 37° (SO)
14) ∪ 765 180° 50° (NW)
**) Tief 13) ∩ 755 175° 35°

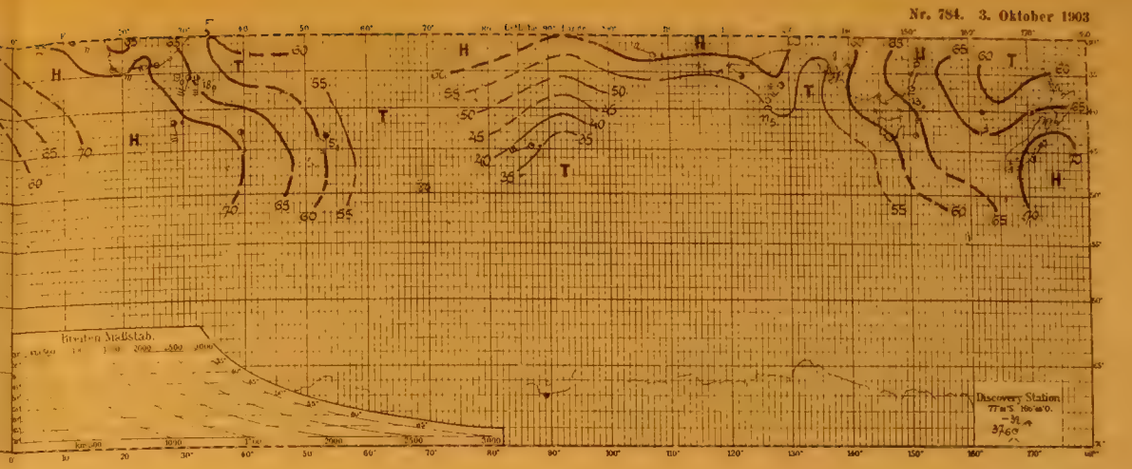
Tafel 262. Nr. 784—786.

3.—5. Oktober 1903.

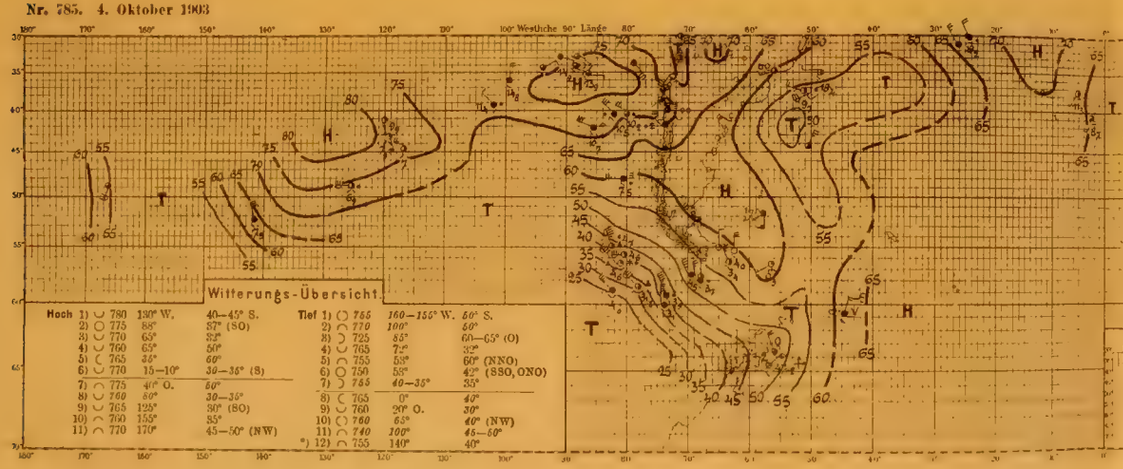
Nr. 784. 3. Oktober 1903



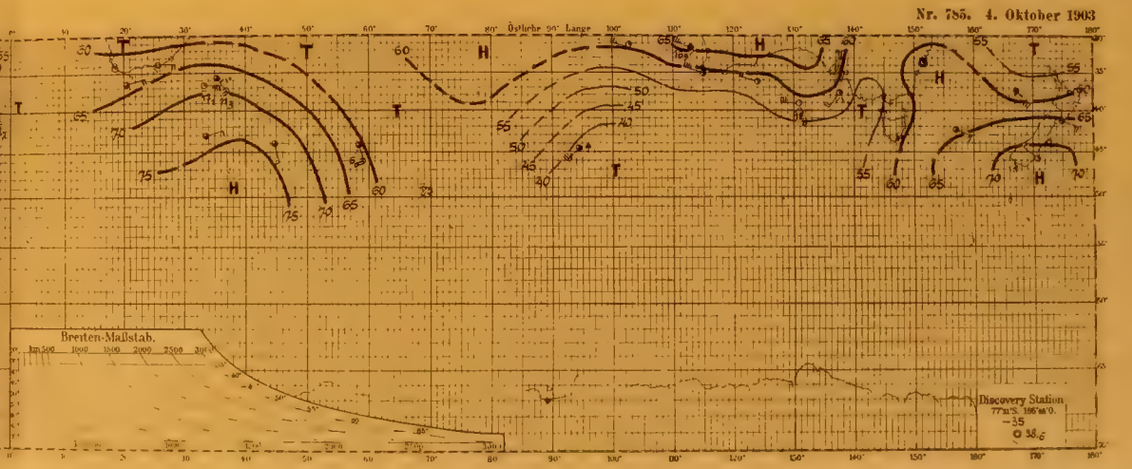
Nr. 784. 3. Oktober 1903



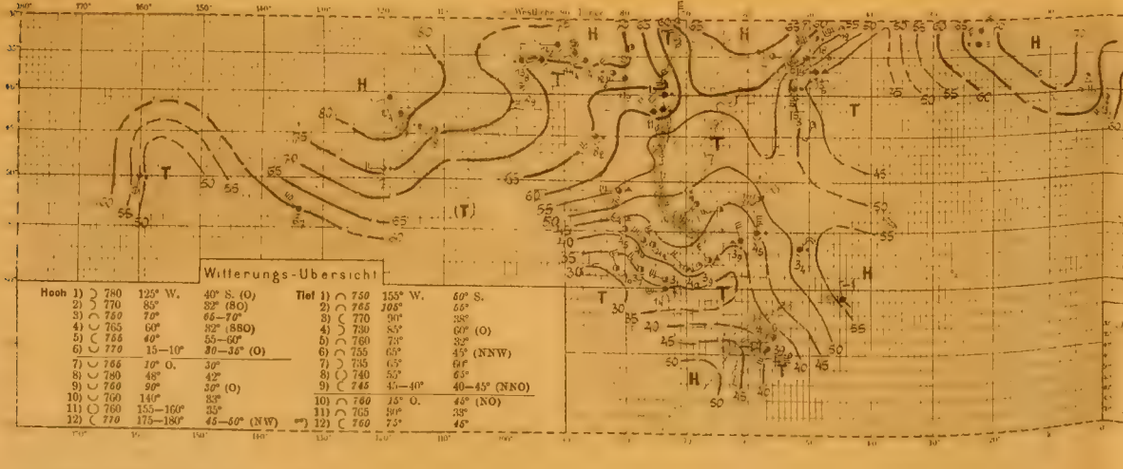
Nr. 785. 4. Oktober 1903



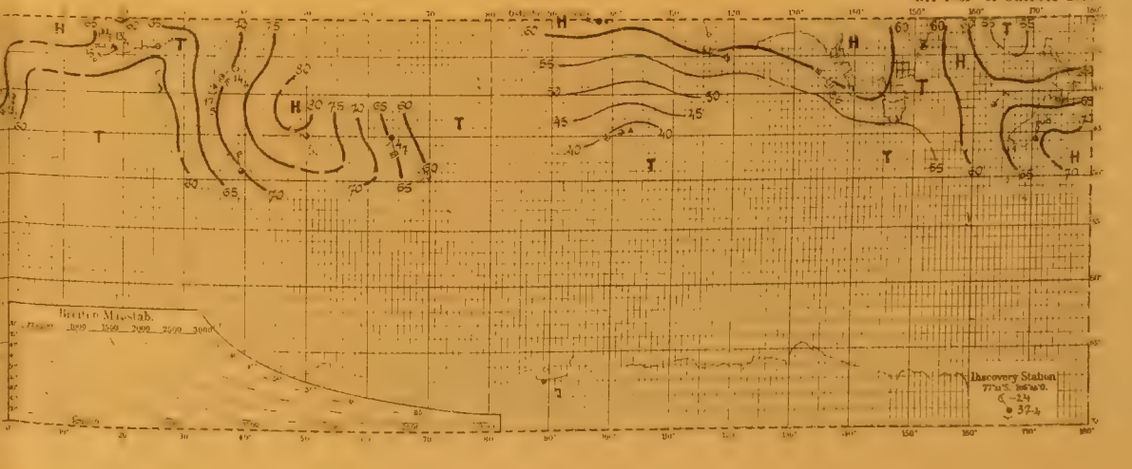
Nr. 785. 4. Oktober 1903



Nr. 786. 5. Oktober 1903



Nr. 786. 5. Oktober 1903

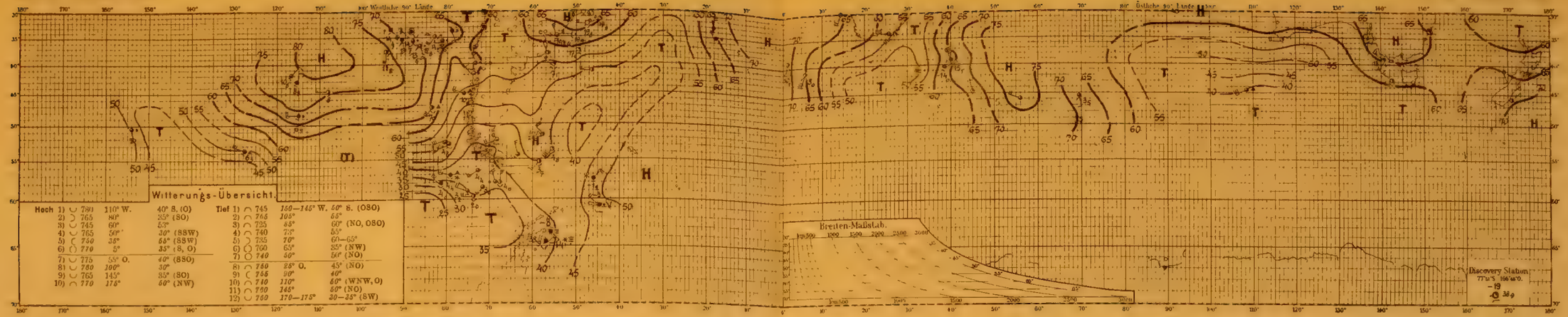


*) 4. Oktober: Tief 13) ◡ 755 170° 30°
**) 5. Oktober: Tief 13) ◠ 740 105° 50°
14) ◠ 755 145° 50° (NNO)
15) ○ 760 130° 40°
16) ◠ 755 165° 30°

Tafel 263. Nr. 787—789.

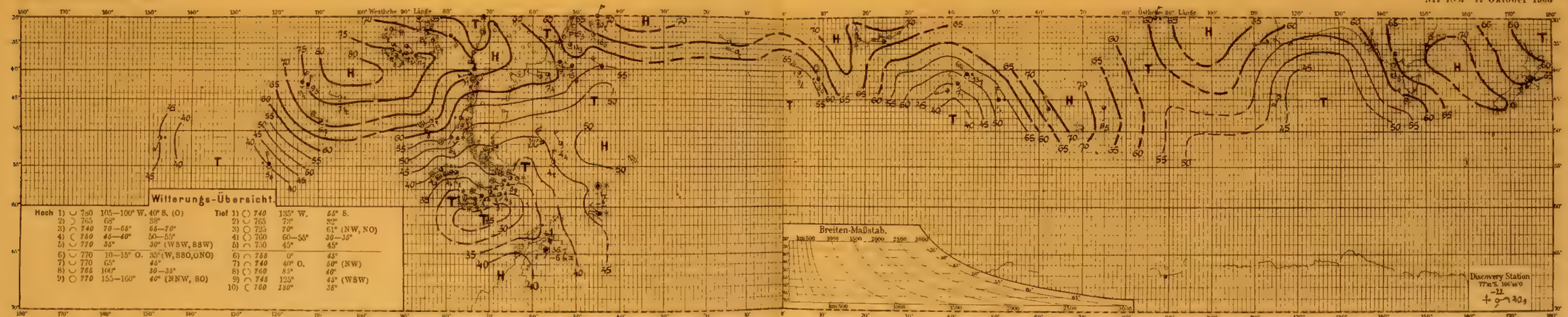
6.—8. Oktober 1903.

Nr. 787. 6. Oktober 1903



Nr. 787. 6. Oktober 1903

Nr. 788. 7. Oktober 1903



Nr. 788. 7. Oktober 1903

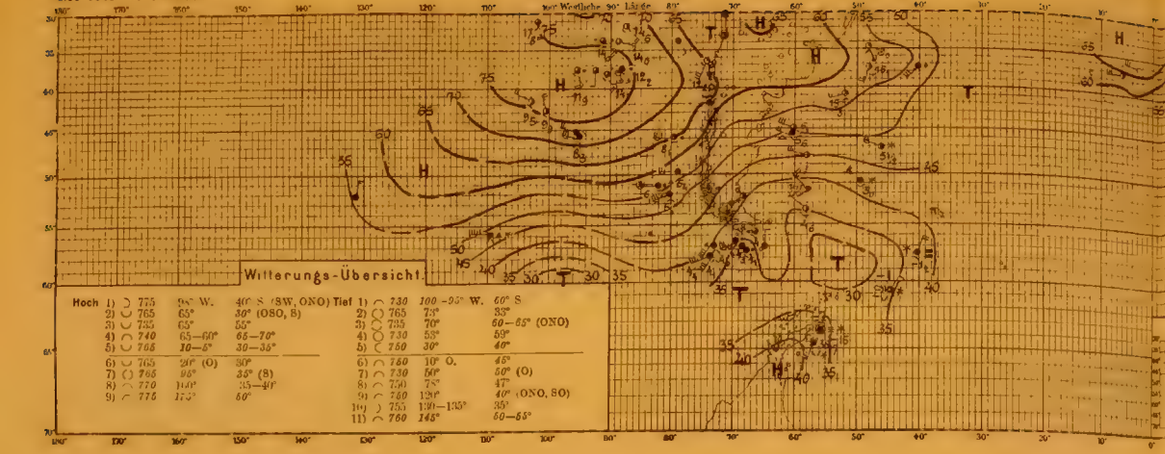
Nr. 789. 8. Oktober 1903

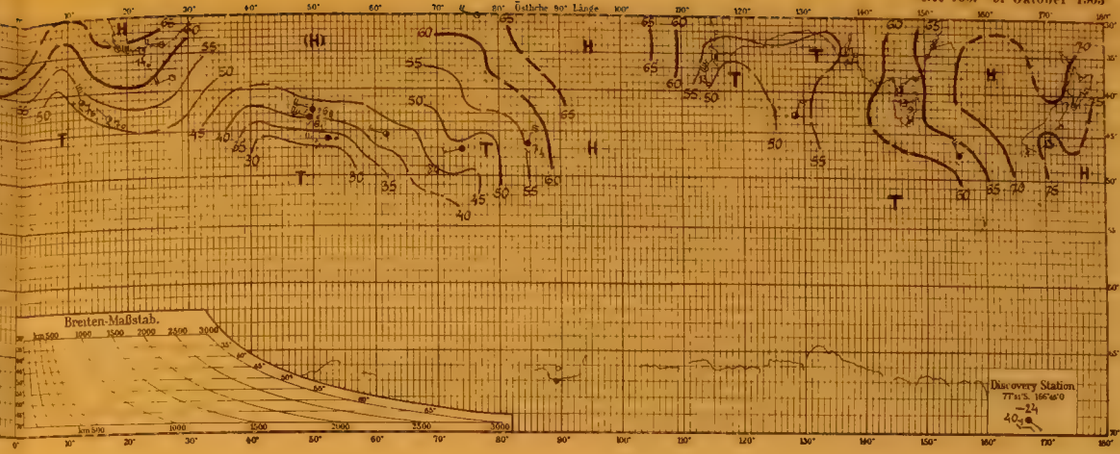
Nr. 789. 8. Oktober 1903

Tafel 264. *Nr. 790—792.*

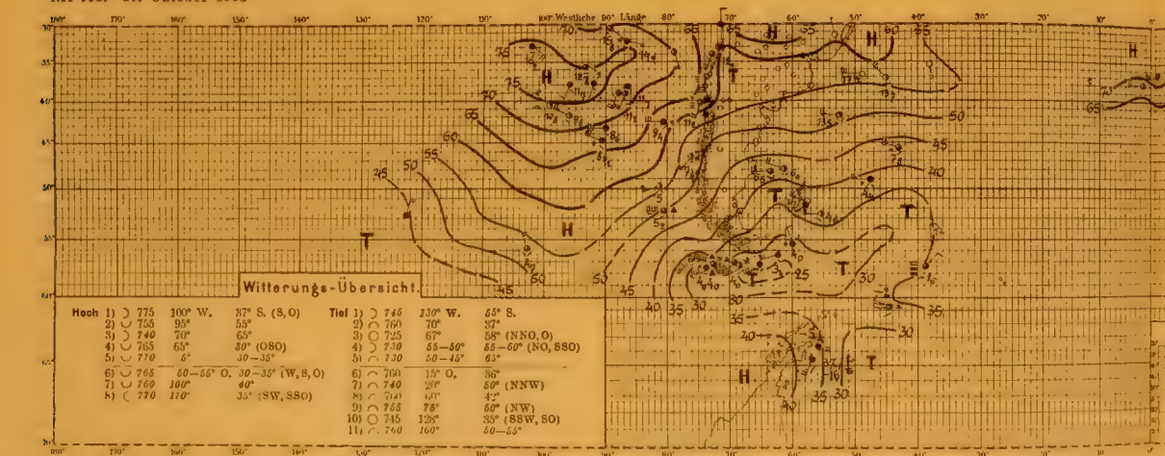
9. — 11. Oktober 1903.

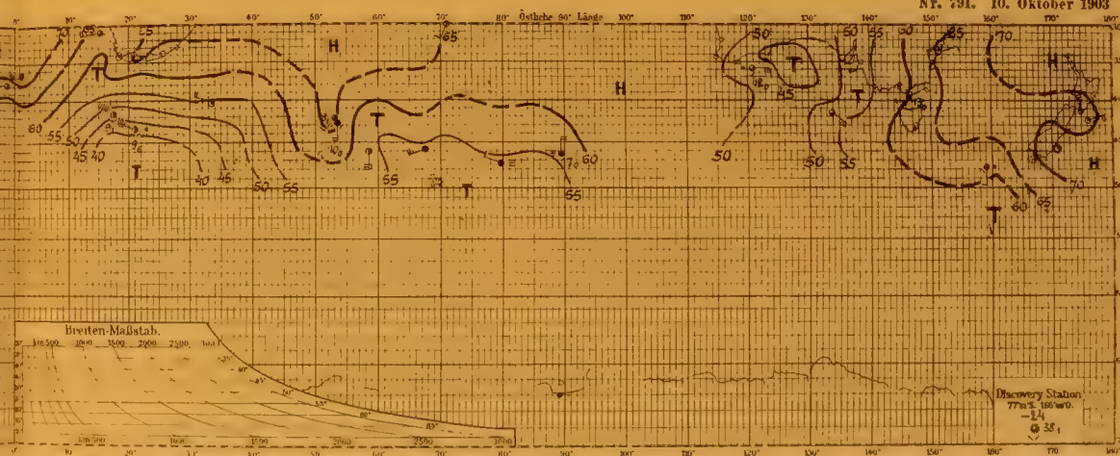
Nr. 790. 9. Oktober 1903



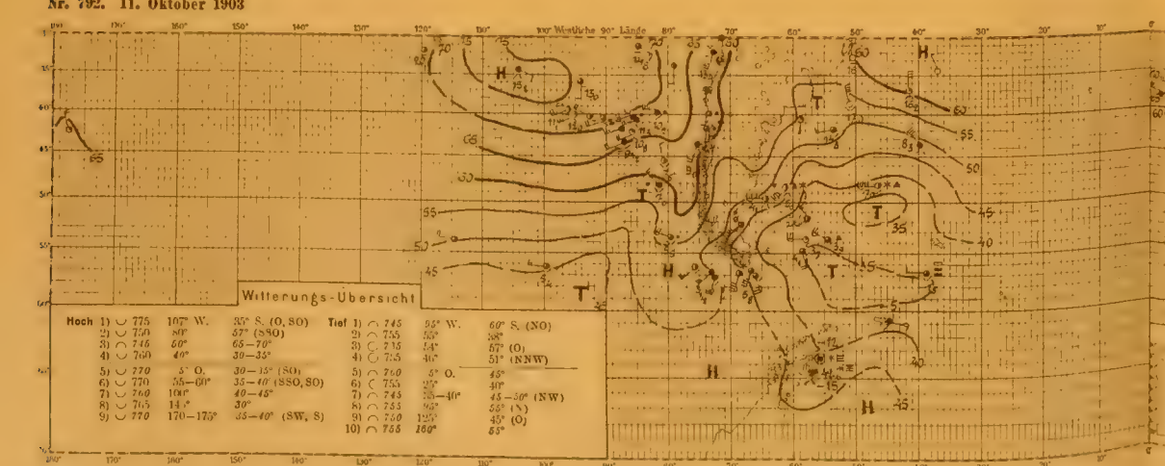


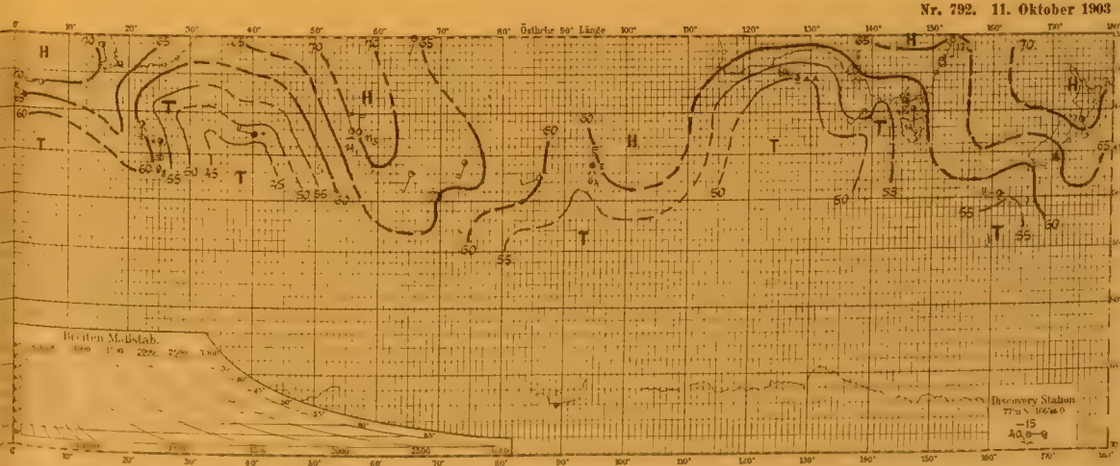
Nr. 791. 10. Oktober 1903





Nr. 792. 11. Oktober 1903

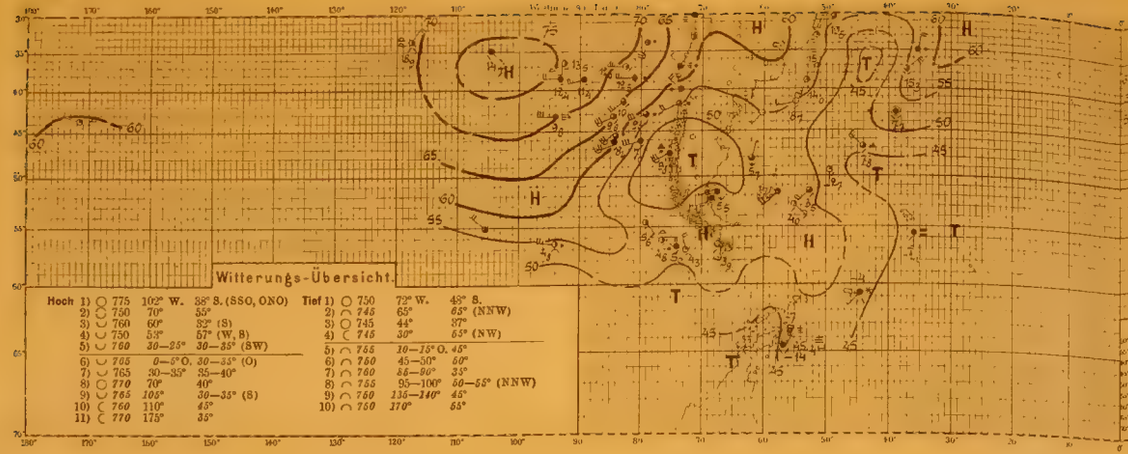


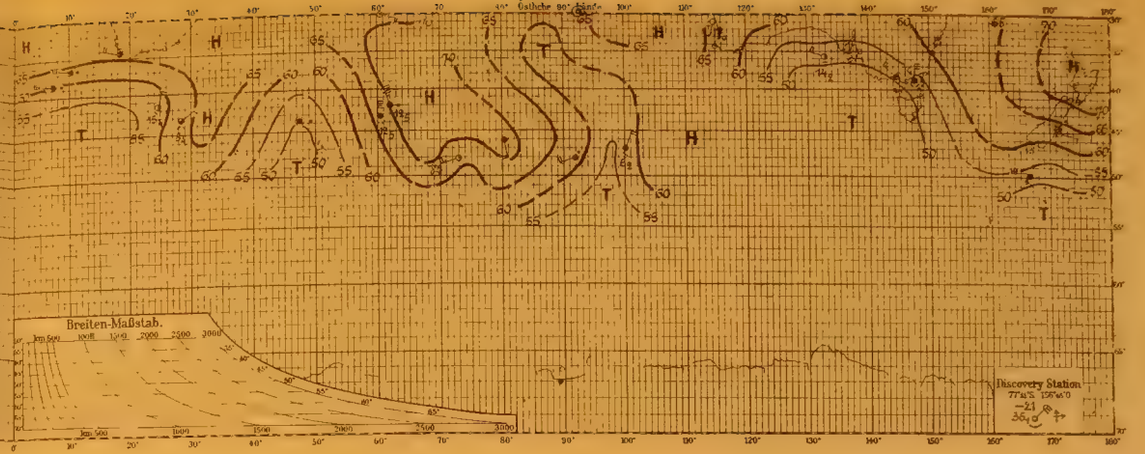


Tafel 265. *Nr. 793—795.*

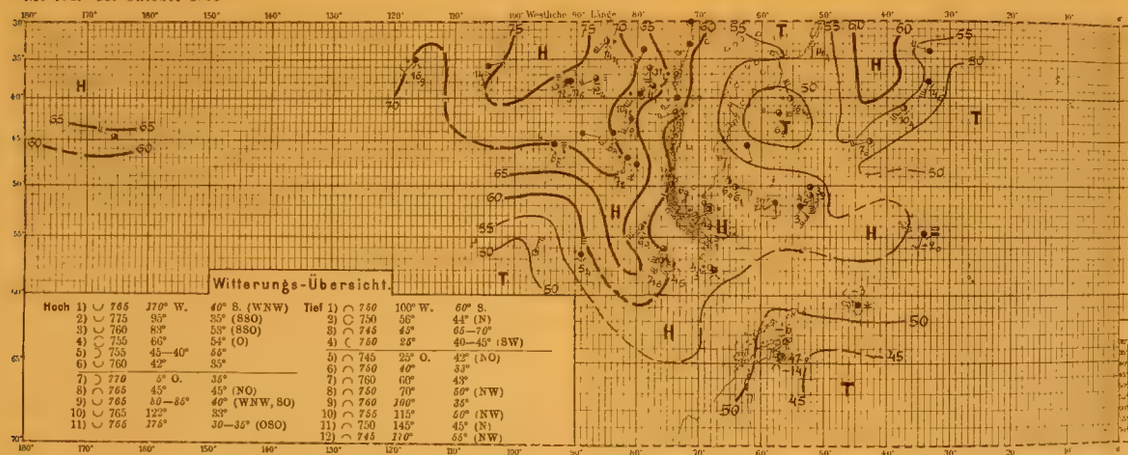
12.—14. Oktober 1903.

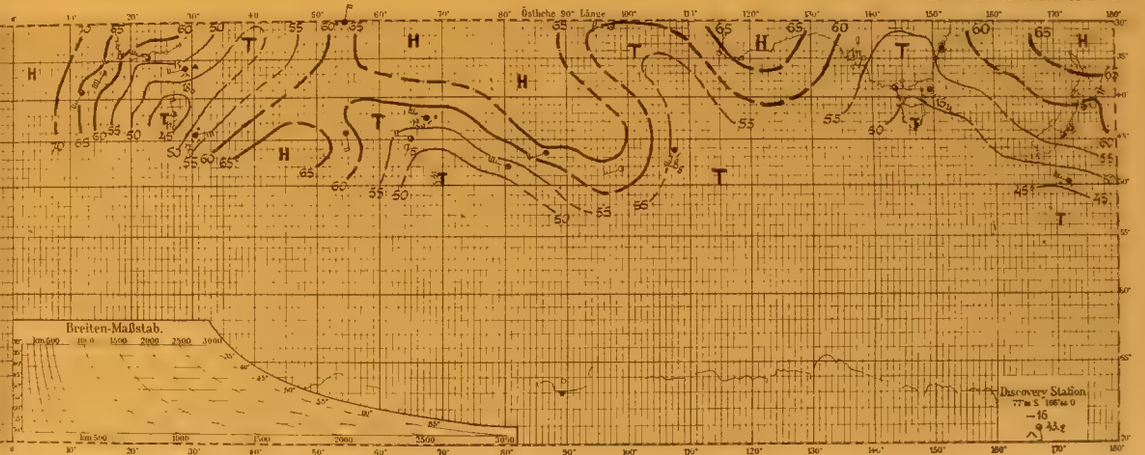
Nr. 793. 12. Oktober 1903



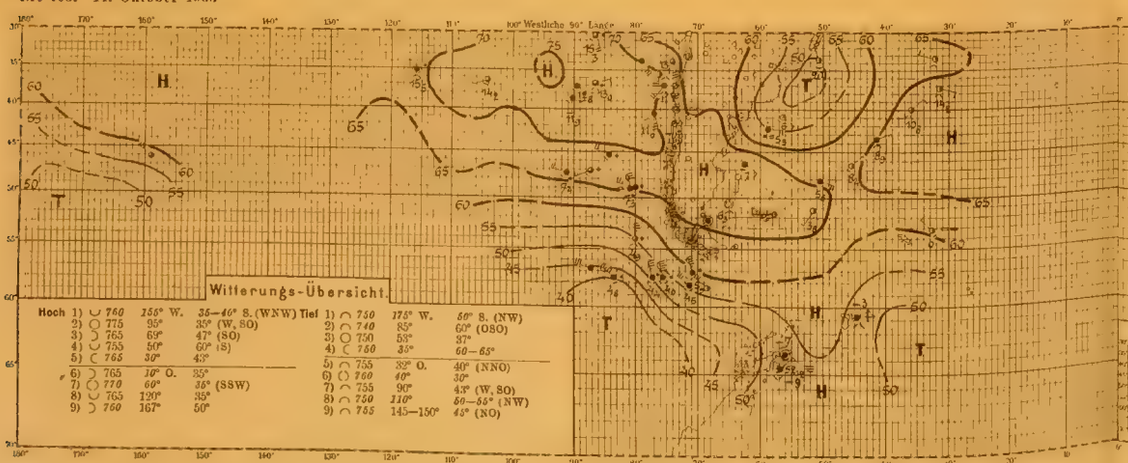


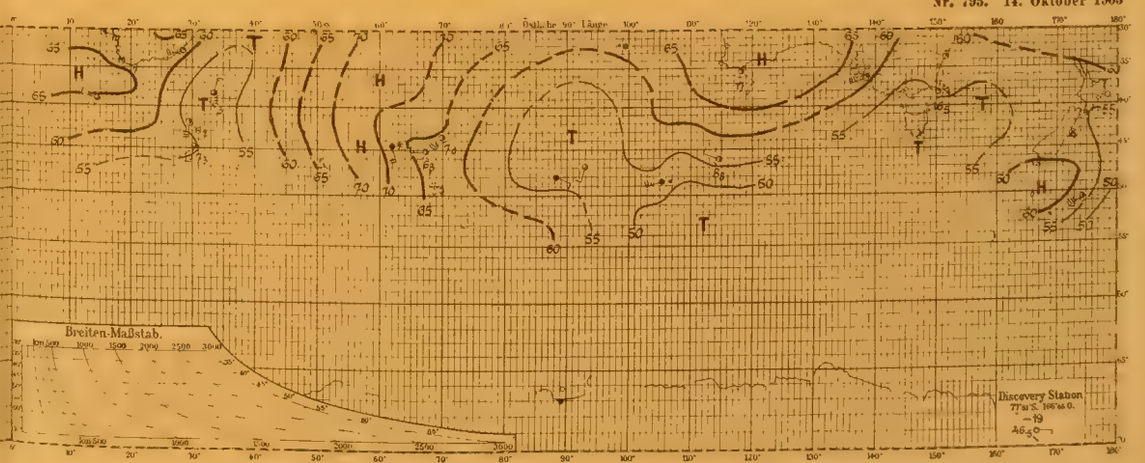
Nr. 794. 13. Oktober 1903





Nr. 795. 14. Oktober 1903

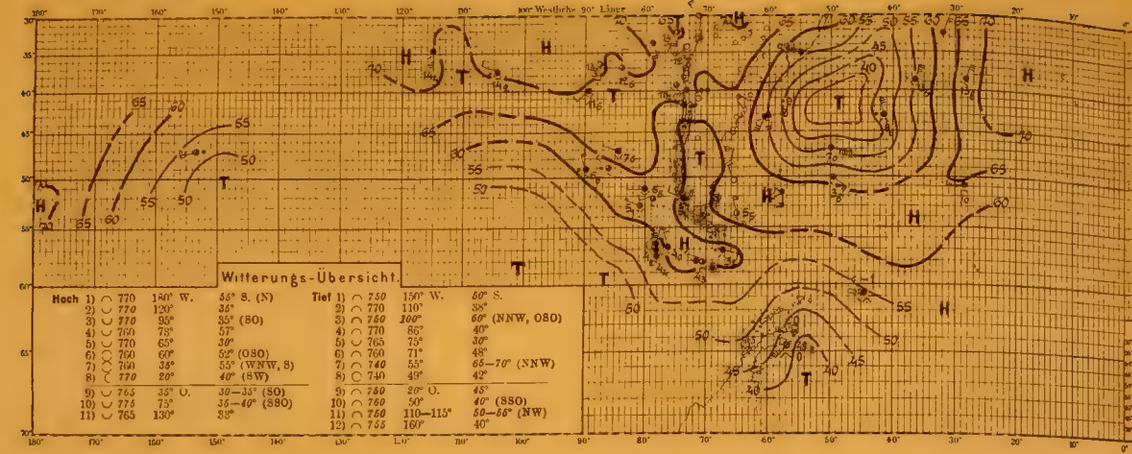




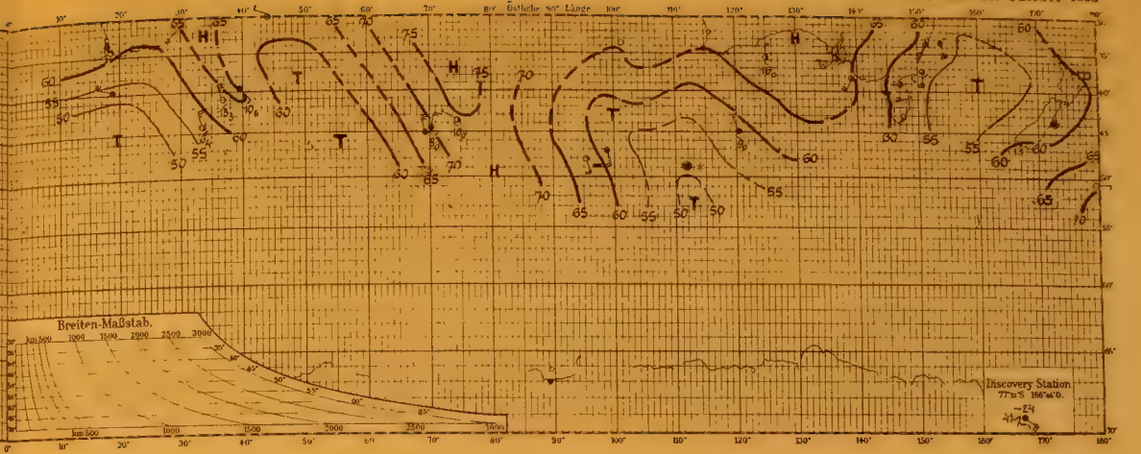
Tafel 266. Nr. 796—798.

15.—17. Oktober 1903.

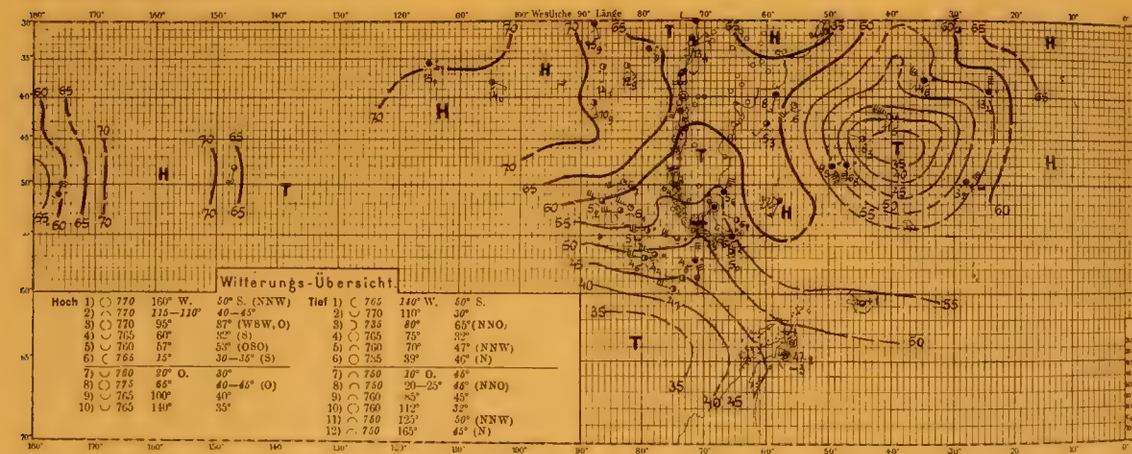
Nr. 796. 15. Oktober 1903



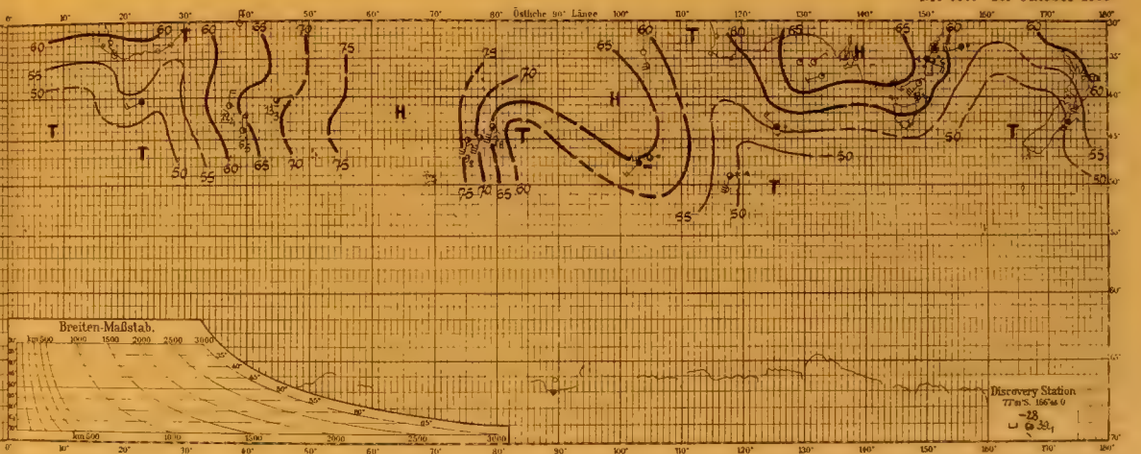
Nr. 796. 15. Oktober 1903



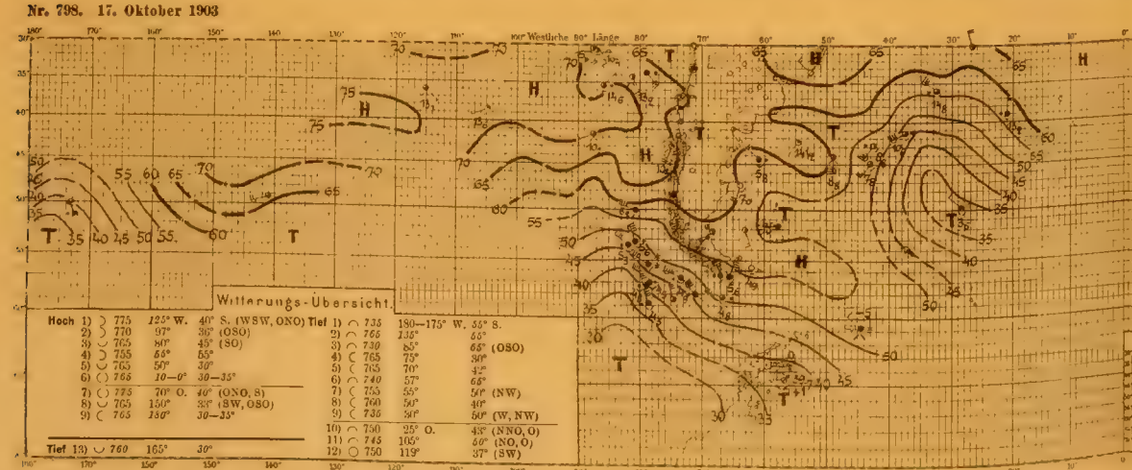
Nr. 797. 16. Oktober 1903



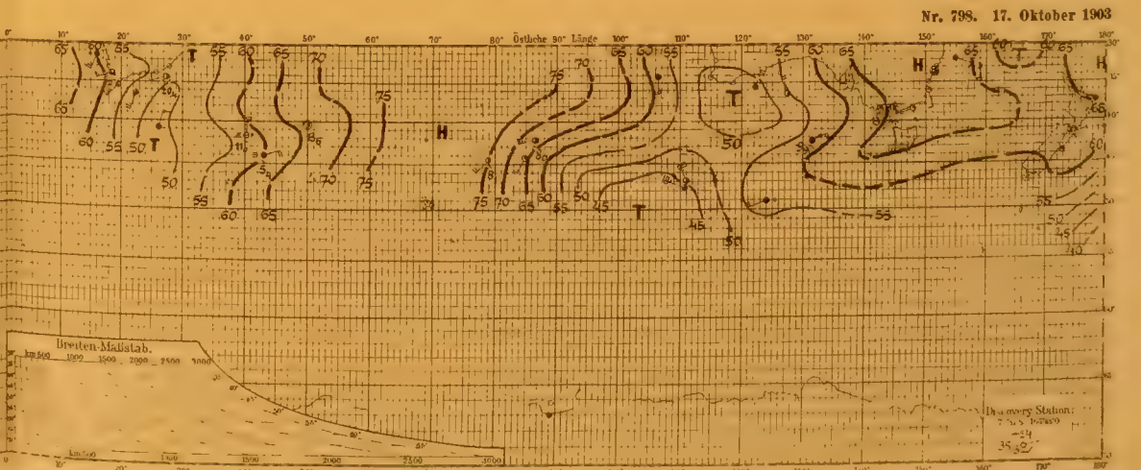
Nr. 797. 16. Oktober 1903



Nr. 798. 17. Oktober 1903



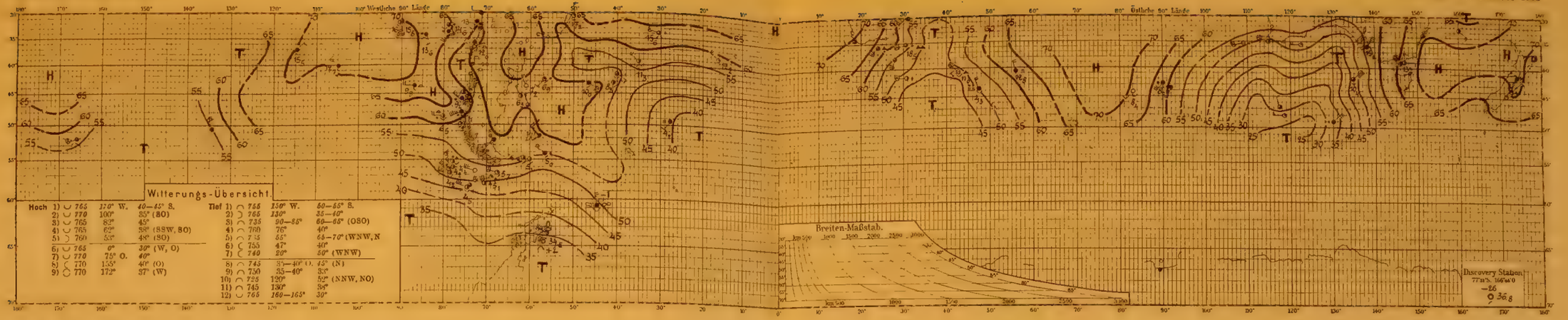
Nr. 798. 17. Oktober 1903



Tafel 267. *Nr. 799—801.*

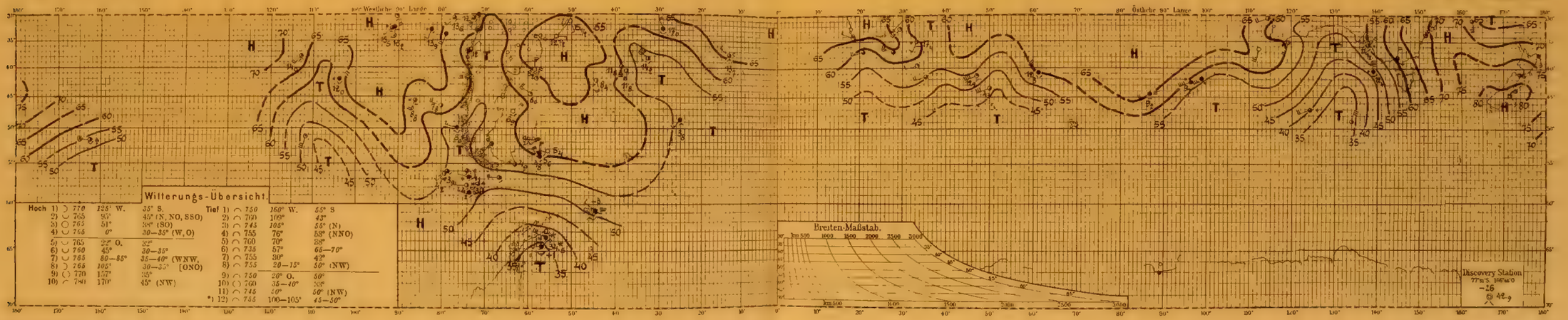
18.—20. Oktober 1903.

Nr. 799. 18. Oktober 1903



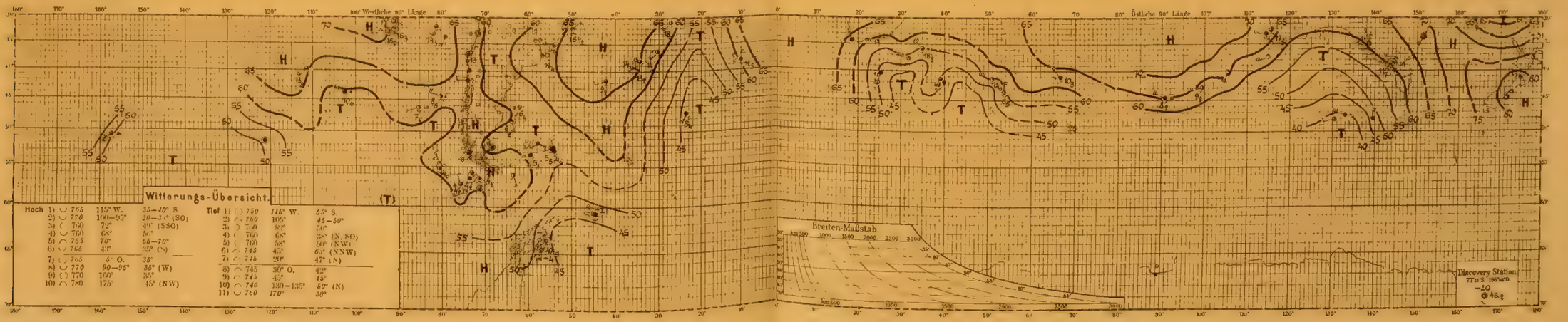
Nr. 799. 18. Oktober 1903

Nr. 800. 19. Oktober 1903



Nr. 800. 19. Oktober 1903

Nr. 801. 20. Oktober 1903



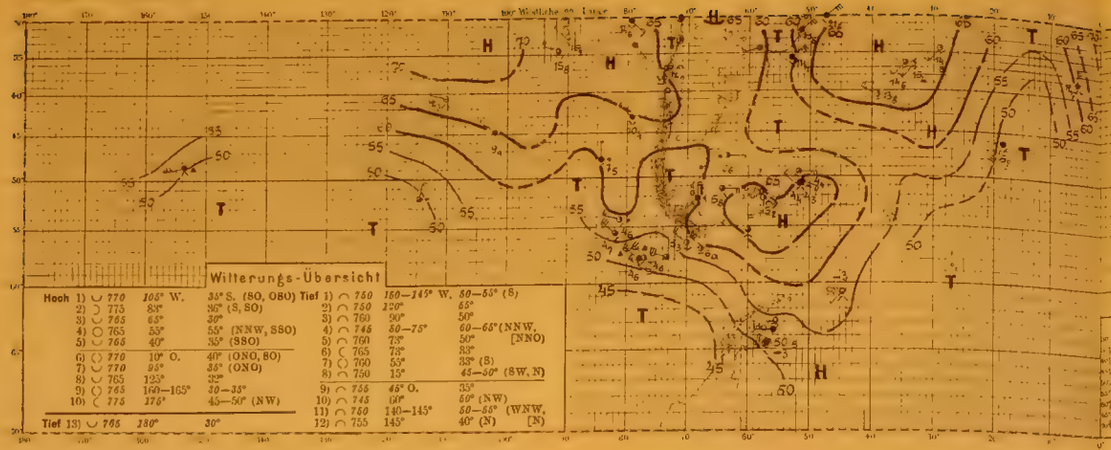
Nr. 801. 20. Oktober 1903

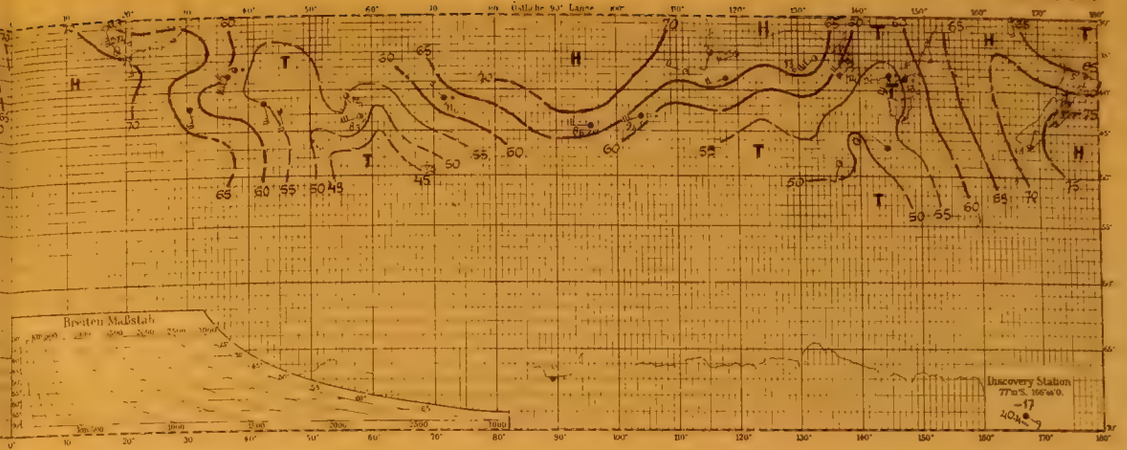
*) 19. Oktober: Tief 13) ∩ 735 130° 48° (N)
14) ∪ 765 165—170° 30°

Tafel 268. Nr. 802—804.

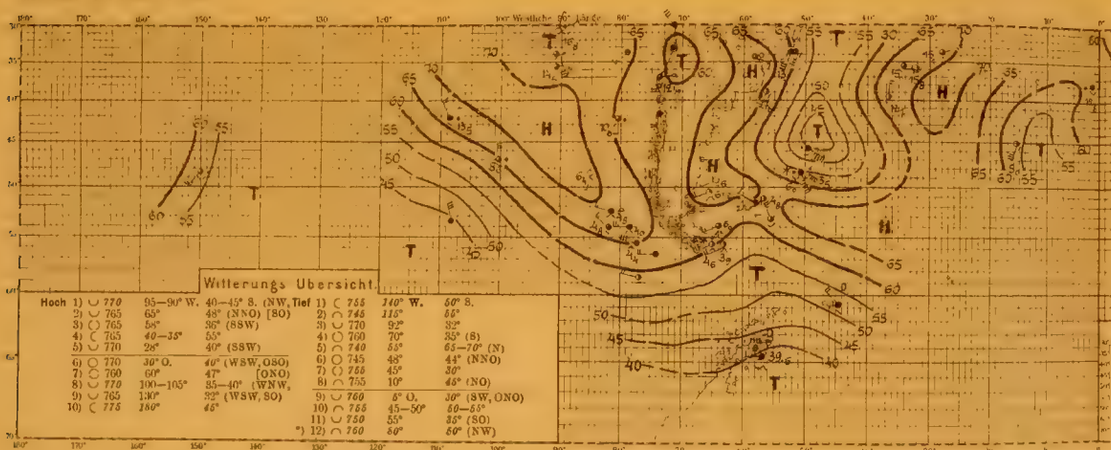
21. — 23. Oktober 1903.

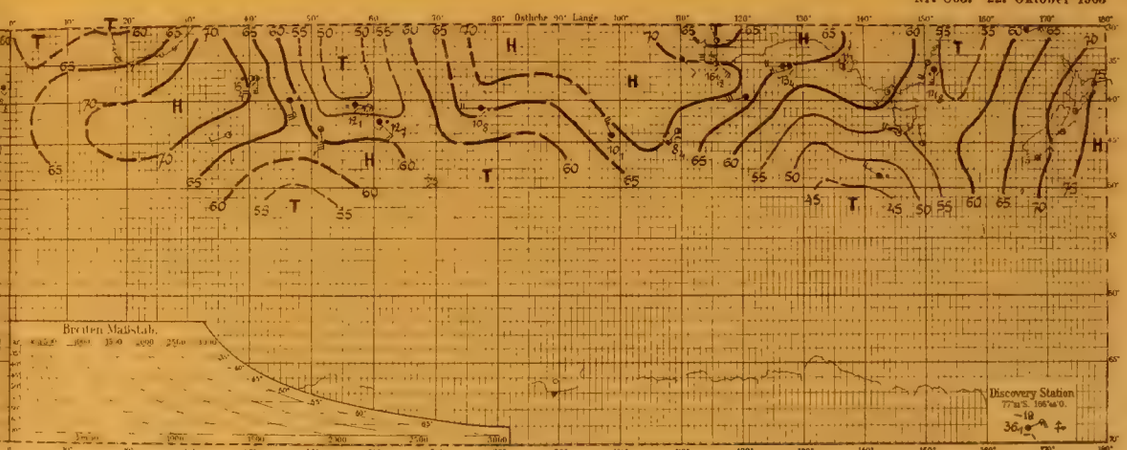
Nr. 802. 21. Oktober 1903



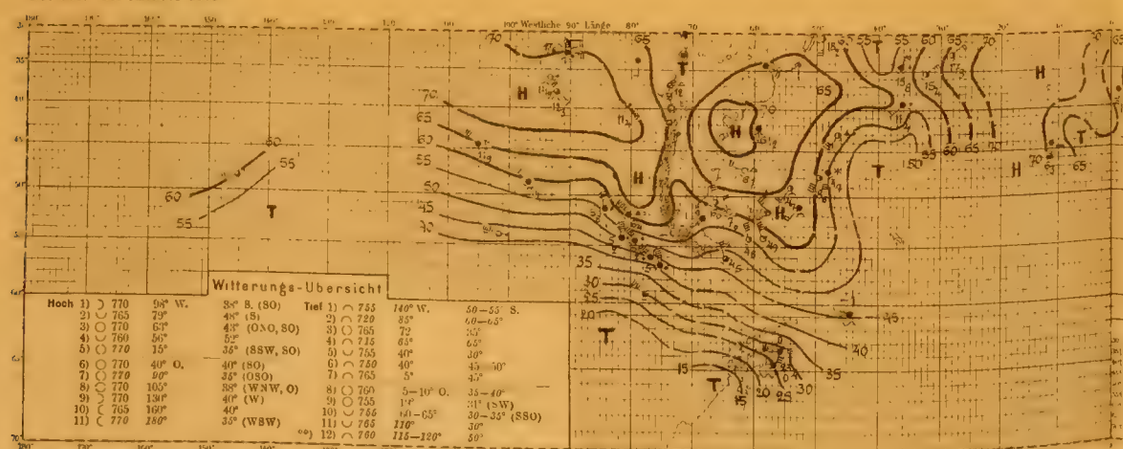


Nr. 803. 22. Oktober 1903





Nr. 804. 23. Oktober 1903



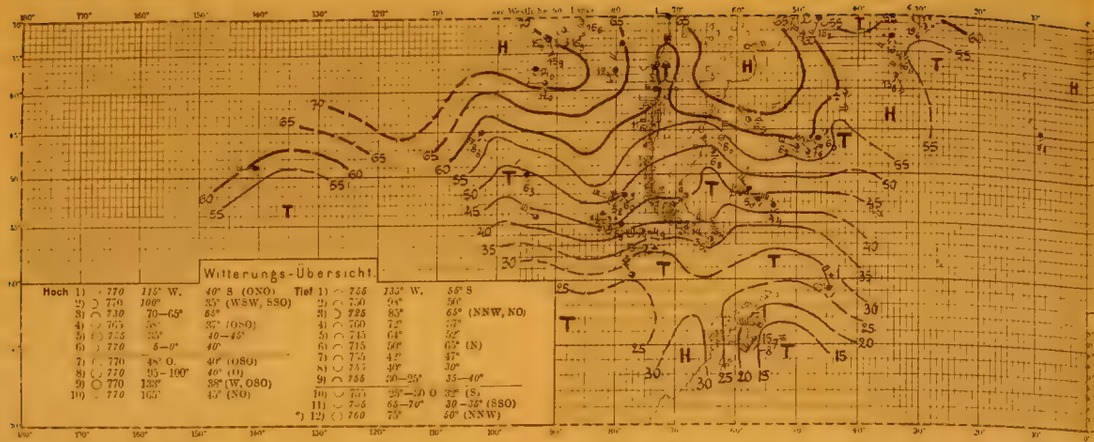
*) 22. Oktober: Tief 13) 765 115° 30°
14) 745 140° 50—55° (NO)
15) 755 155° 35° (SSW)

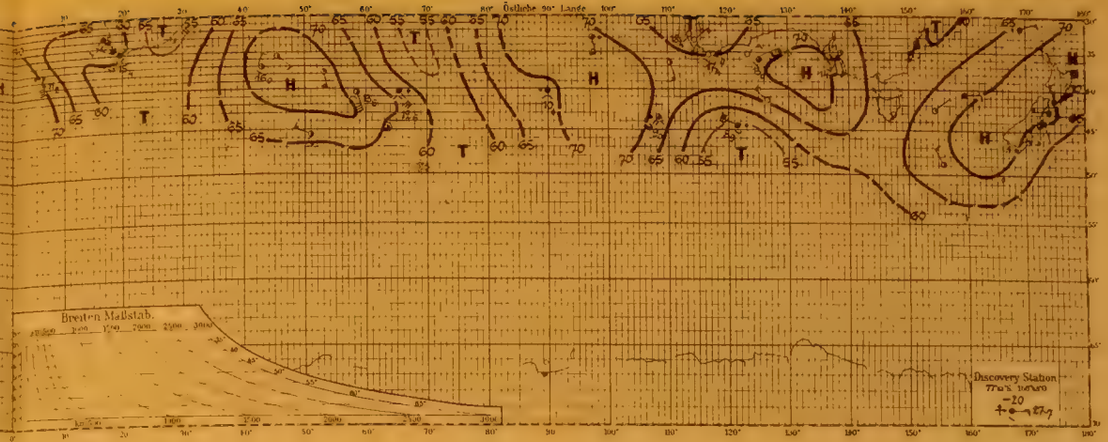
**) 23. Oktober: Tief 13) 760 150° 45°
14) 755 155° 60—55° (N, NO)
15) 760 165—160° 30°

Tafel 269. Nr. 805—807.

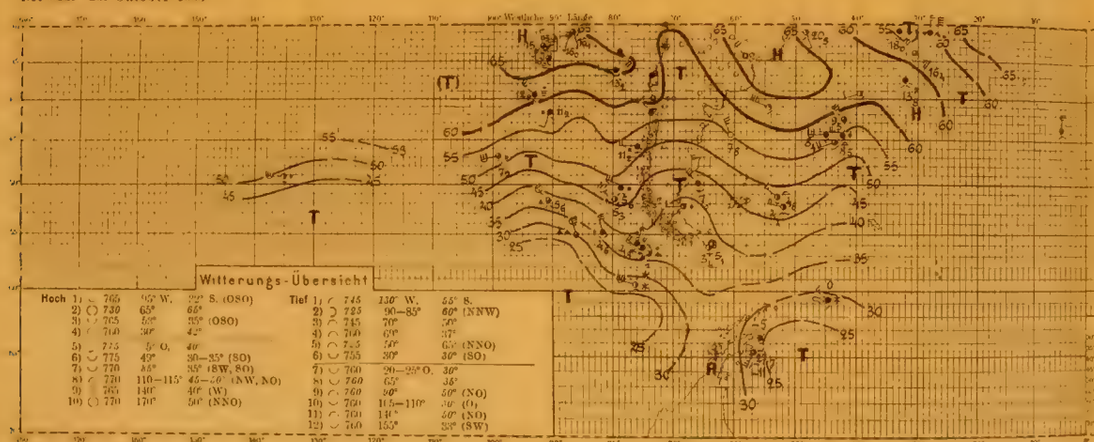
24. — 26. Oktober 1903.

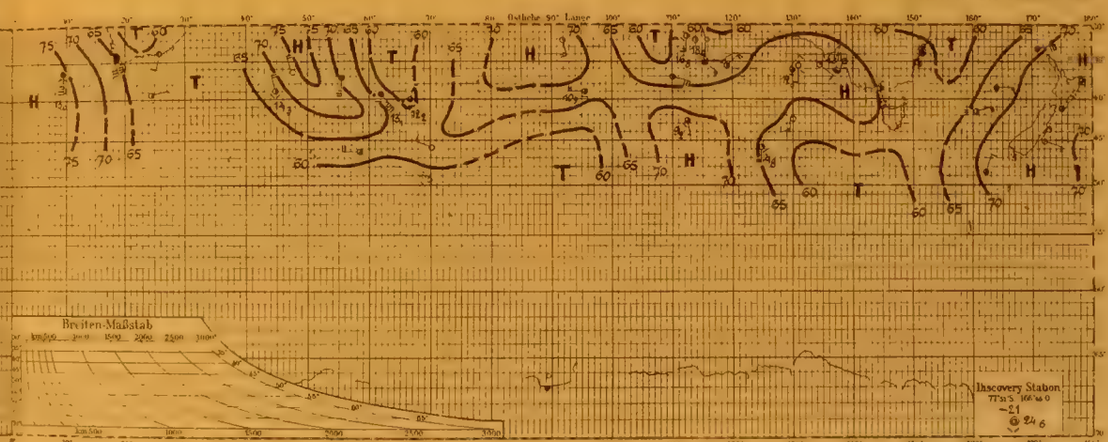
Nr. 805. 24. Oktober 1903



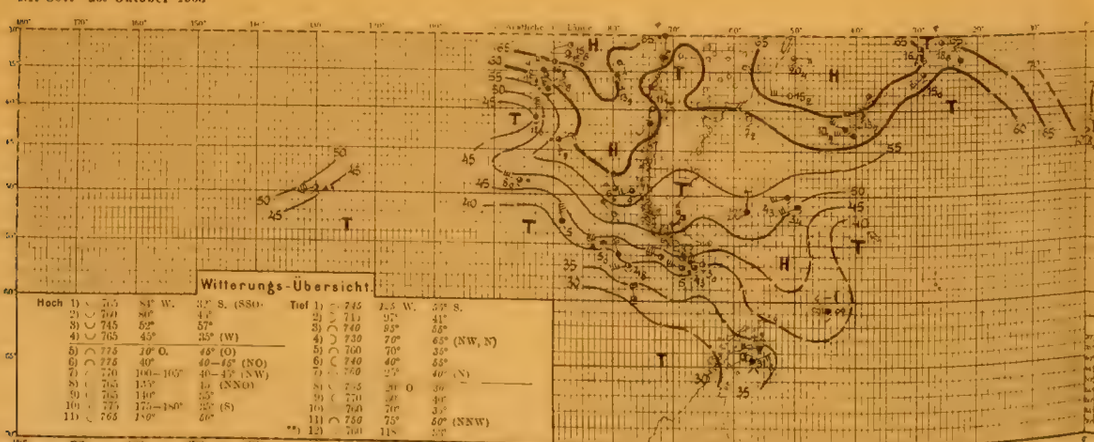


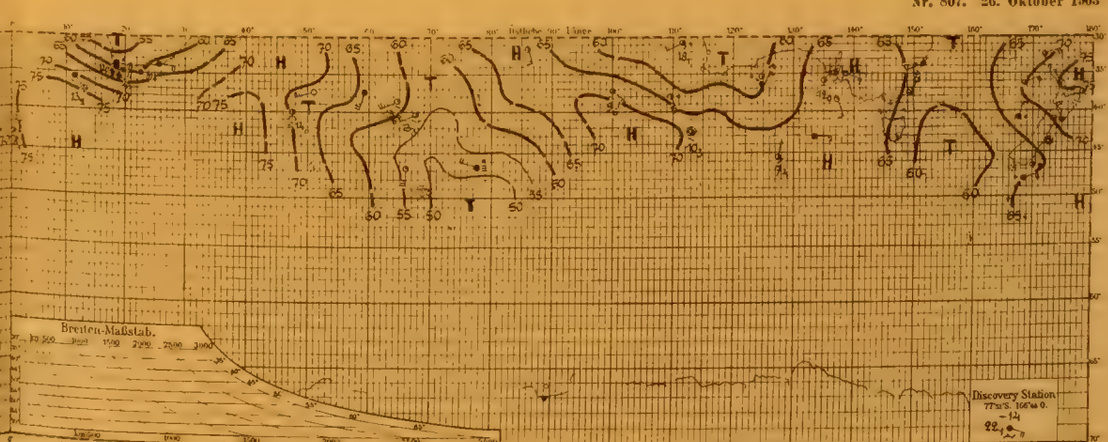
Nr. 806. 25. Oktober 1903





Nr. 807. 26. Oktober 1903



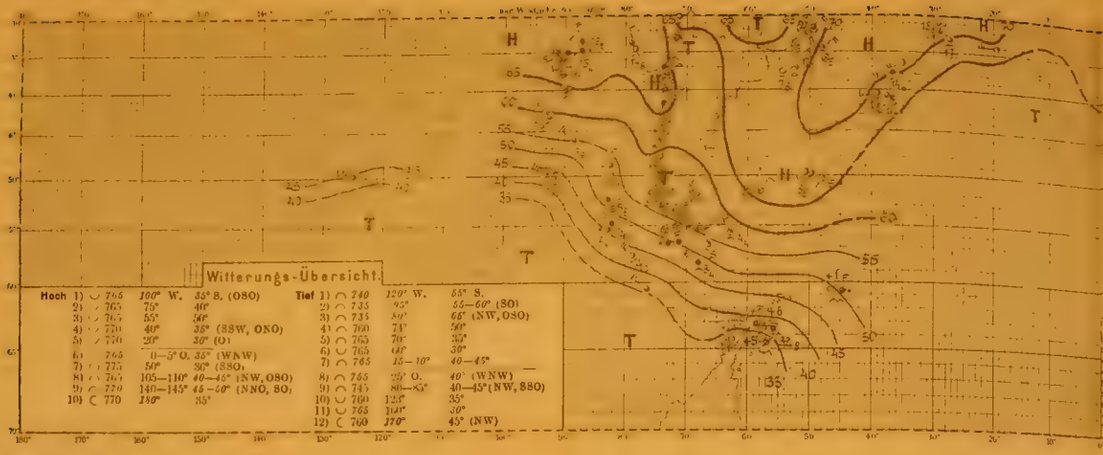


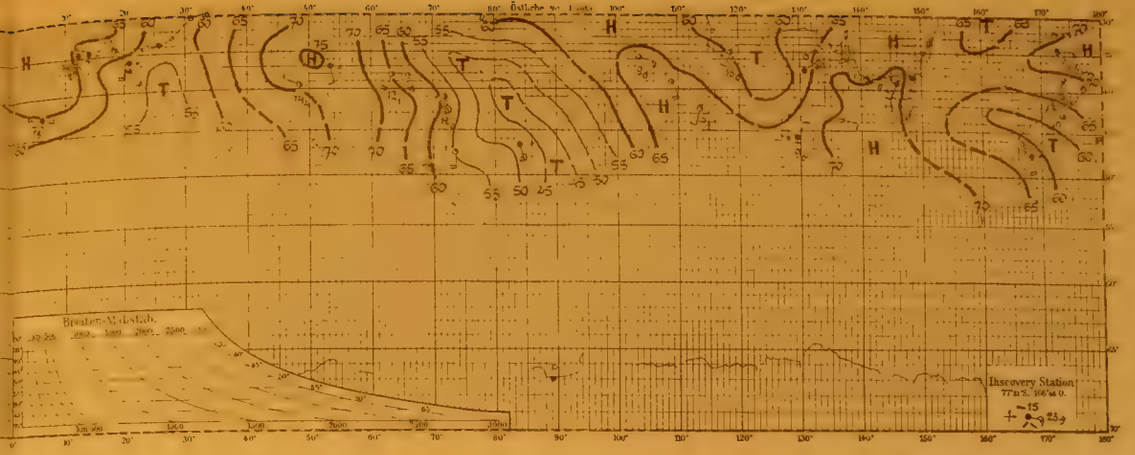
*) 24. Oktober: Tief 13) ◡ 765 115° 30°
14) ○ 755 120° 50° (OSO)
15) ◡ 760 155° 30° (SSW)
**) 26. Oktober: Tief 13) ○ 760 155° 45° (N)

Tafel 270. *Nr. 808—810.*

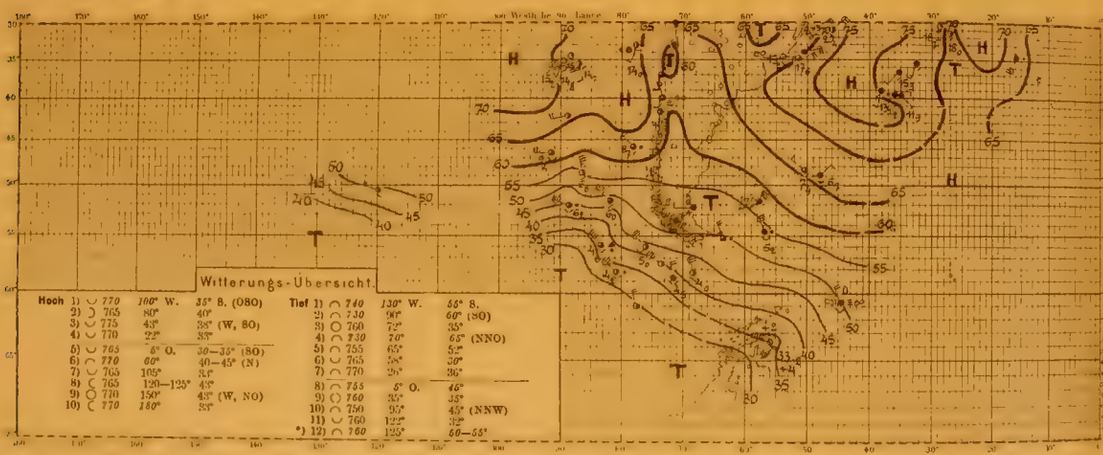
27.—29. Oktober 1903.

Nr. 808. 27. Oktober 1903

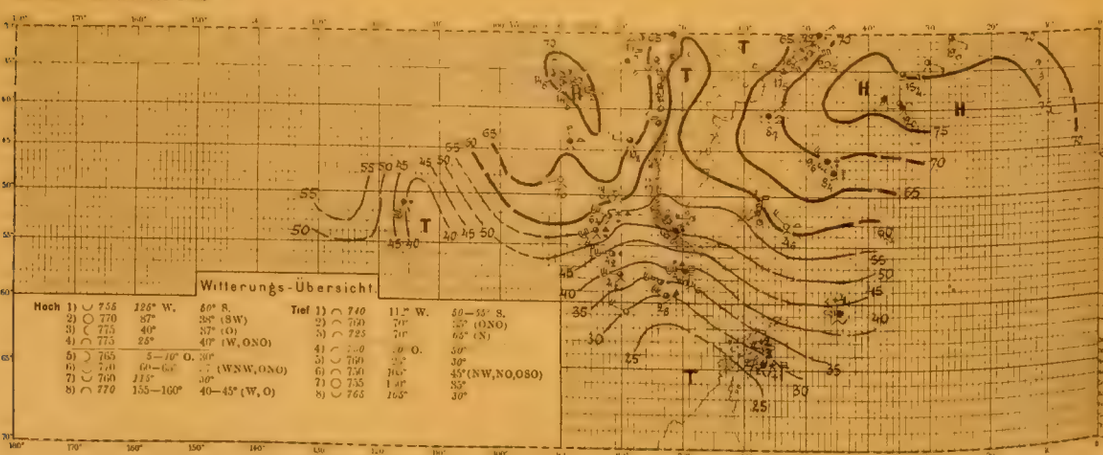




Nr. 809. 28. Oktober 1903



Nr. 810. 29. Oktober 1903

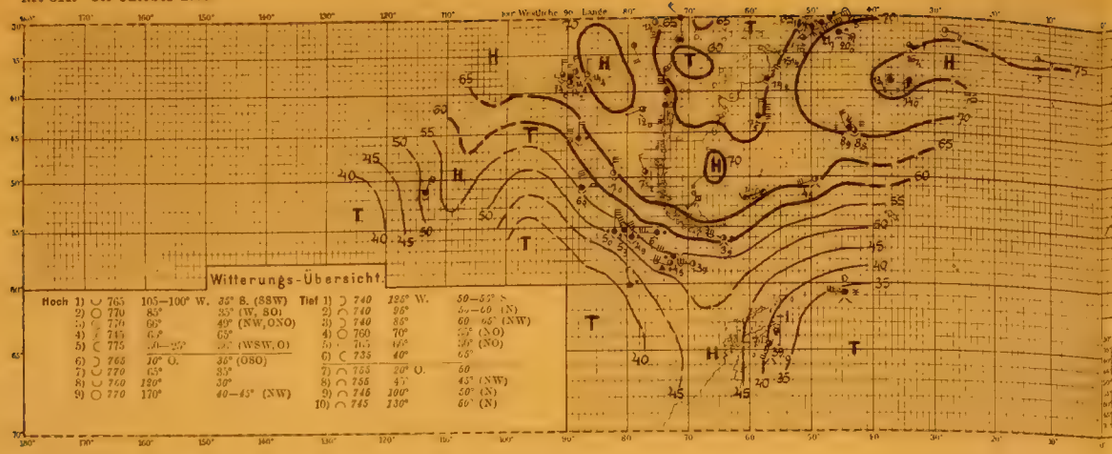


*) 28. Oktober: Tief 13) ∪ 765 165° 30°
14) ∩ 760 150° 60°

Tafel 271. Nr. 811—813.

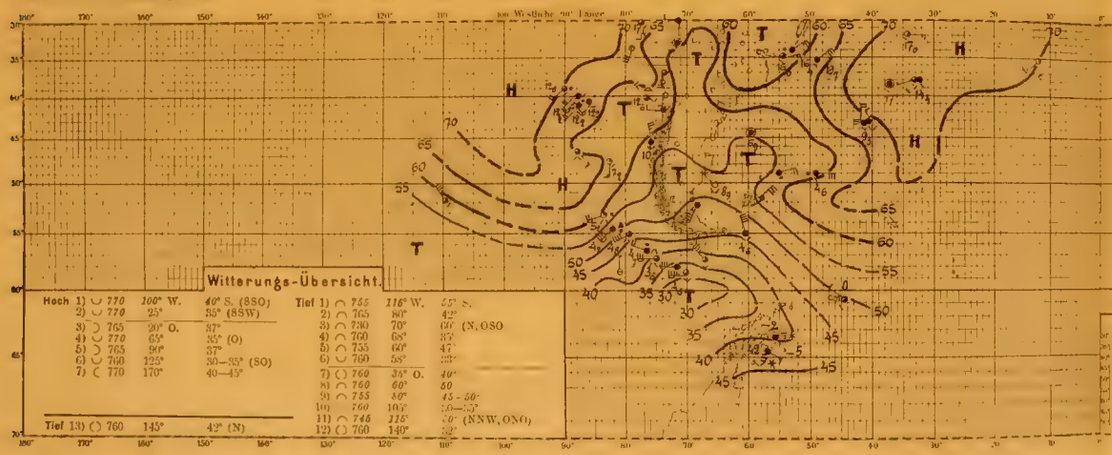
30. Oktober—1. November 1903.

Nr. 811. 30. Oktober 1903



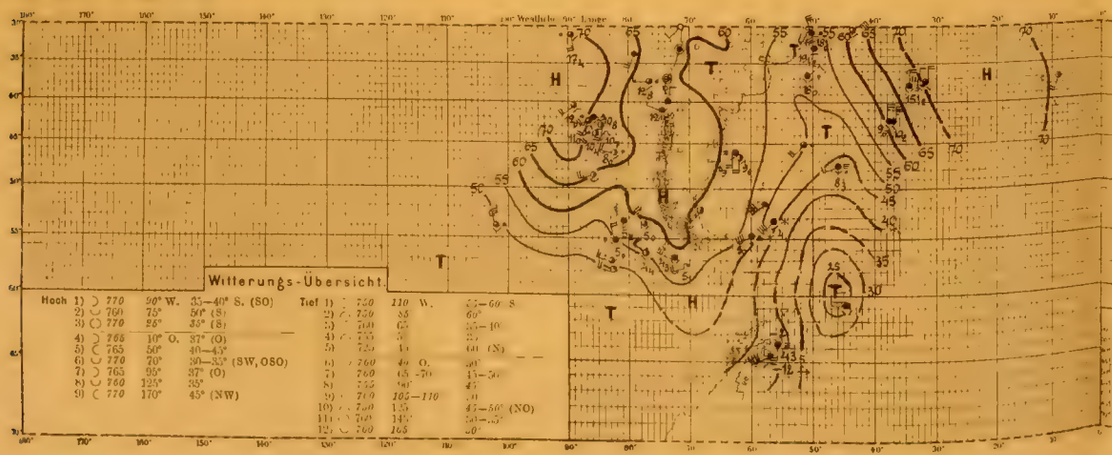
Nr. 811. 30. Oktober 1903

Nr. 812. 31. Oktober 1903



Nr. 812. 31. Oktober 1903

Nr. 813. 1. November 1903

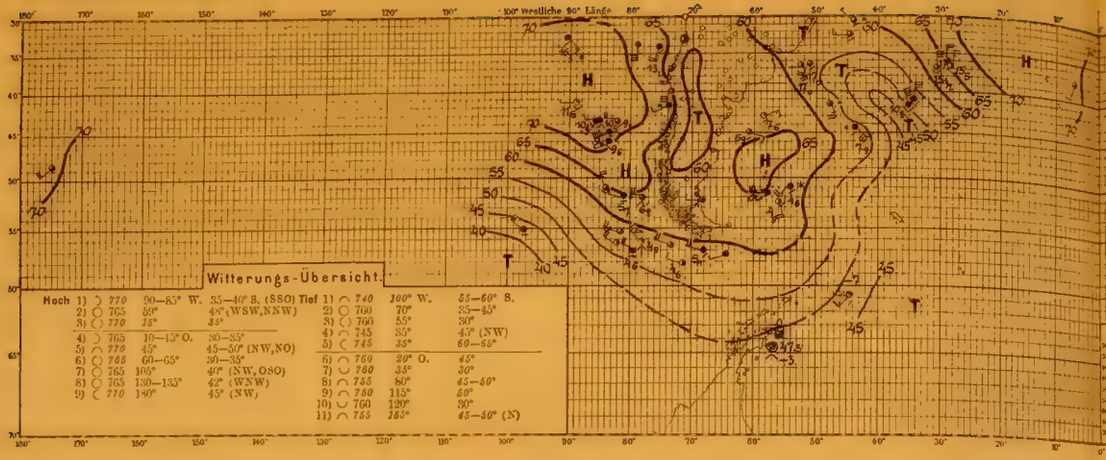


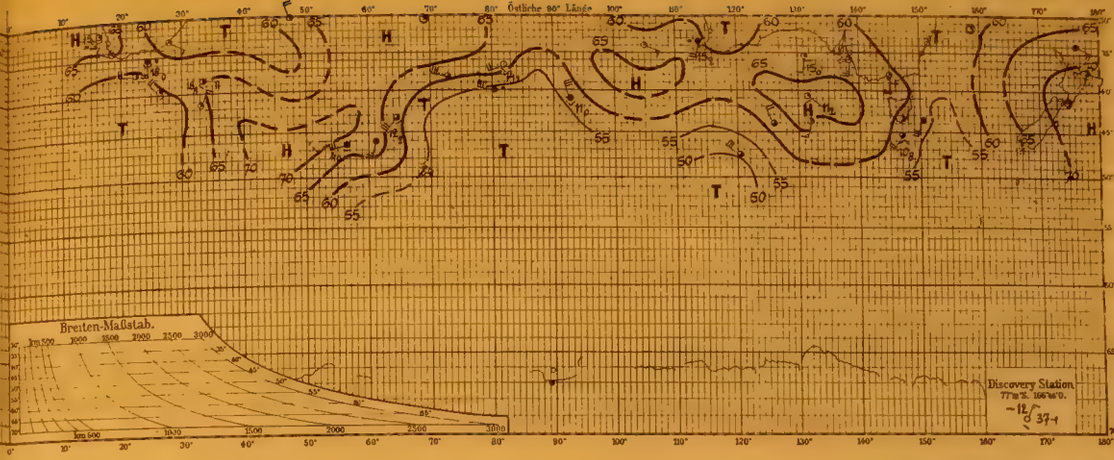
Nr. 813. 1. November 1903

Tafel 272. Nr. 814–816.

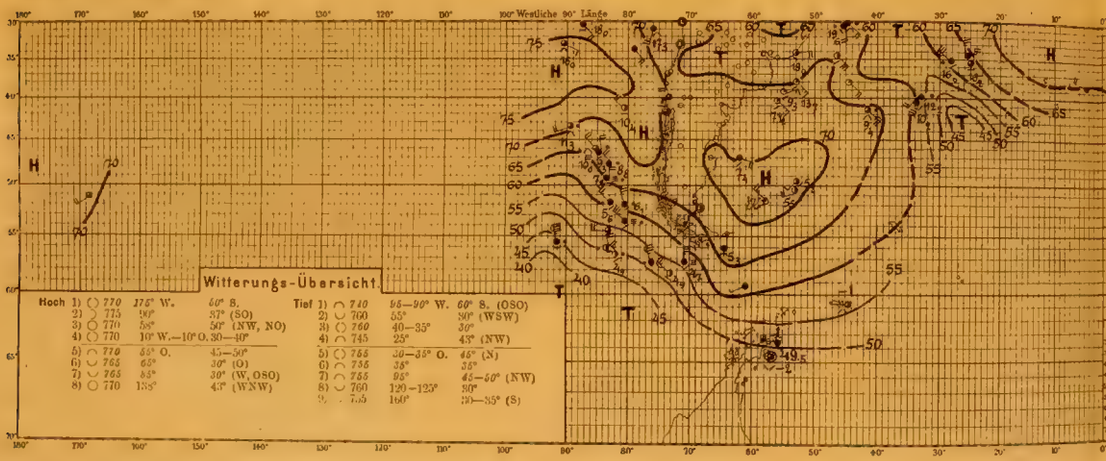
2. –4. November 1903.

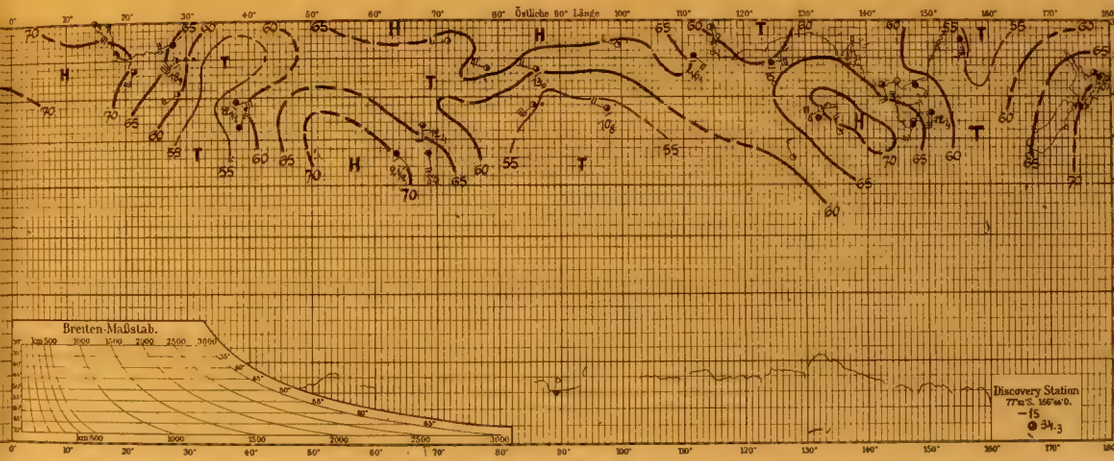
Nr. 814. 2. November 1903



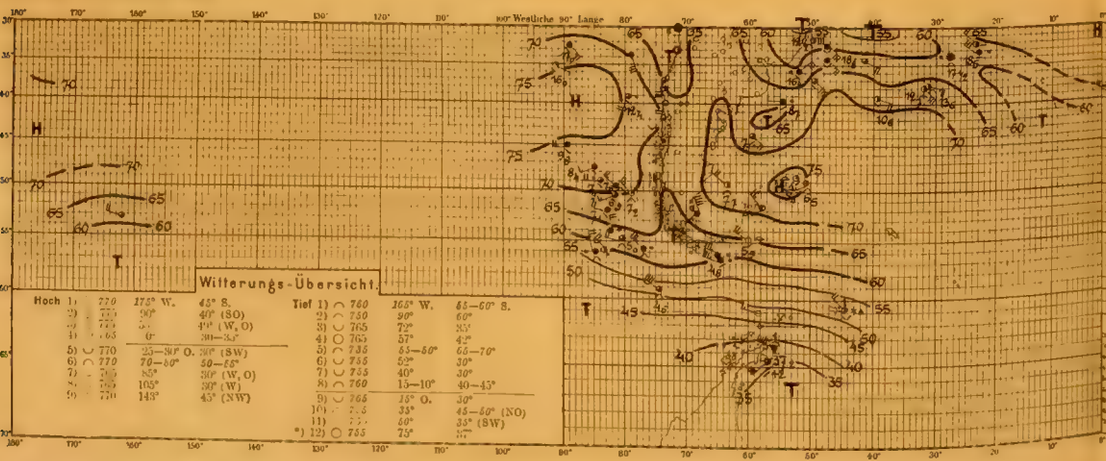


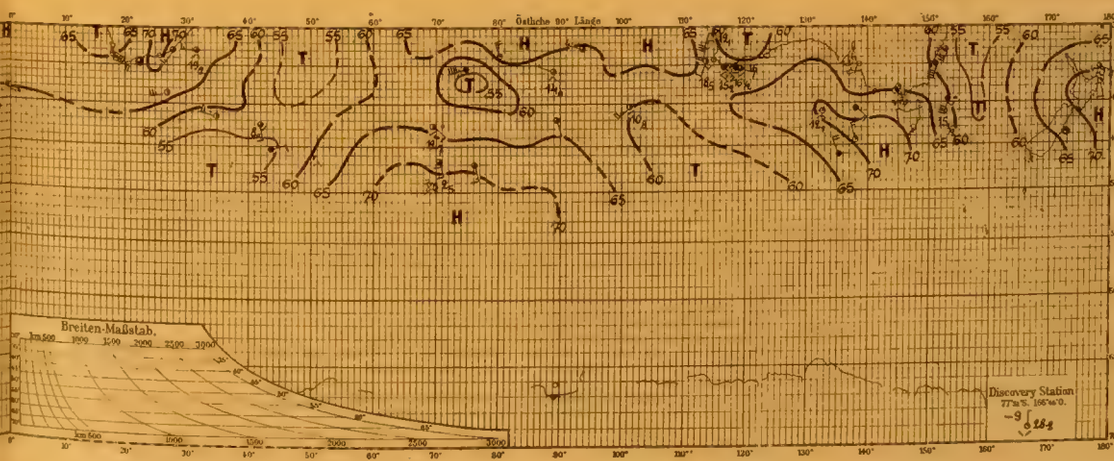
Nr. 815. 3. November 1903





Nr. 816. 4. November 1903



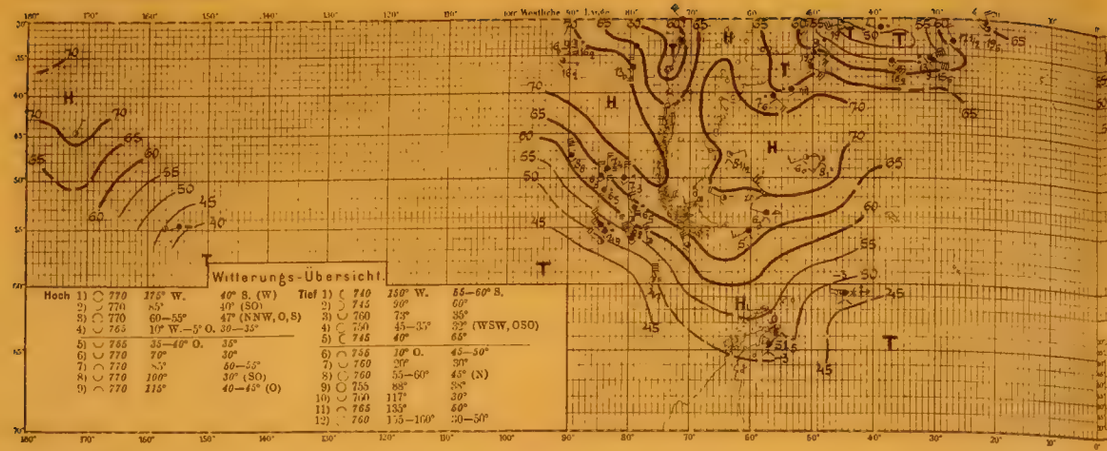


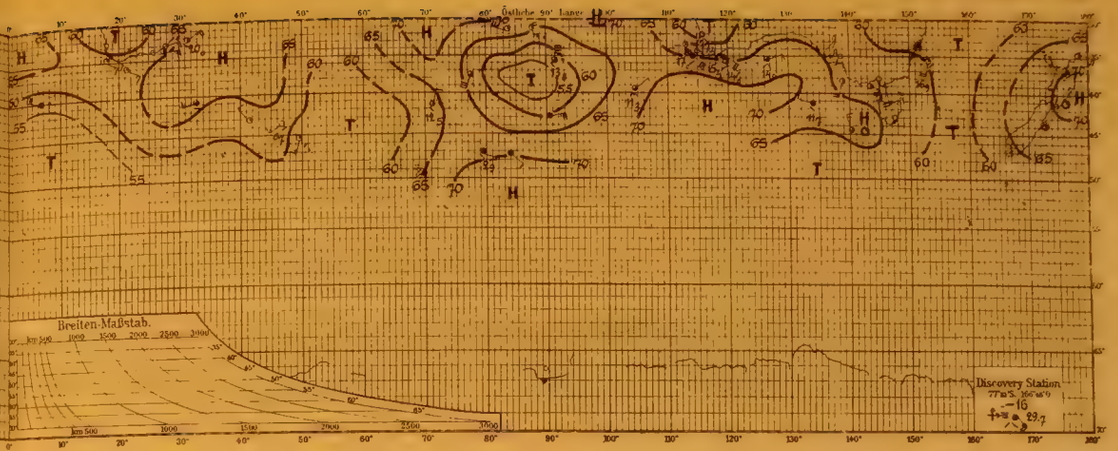
*) 4. November: Tief 13) ○ 760 110° 45—50° (NW)
14) ○ 760 120° 30°
15) ○ 755 167° 30—40°

Tafel 273. *Nr. 817—819.*

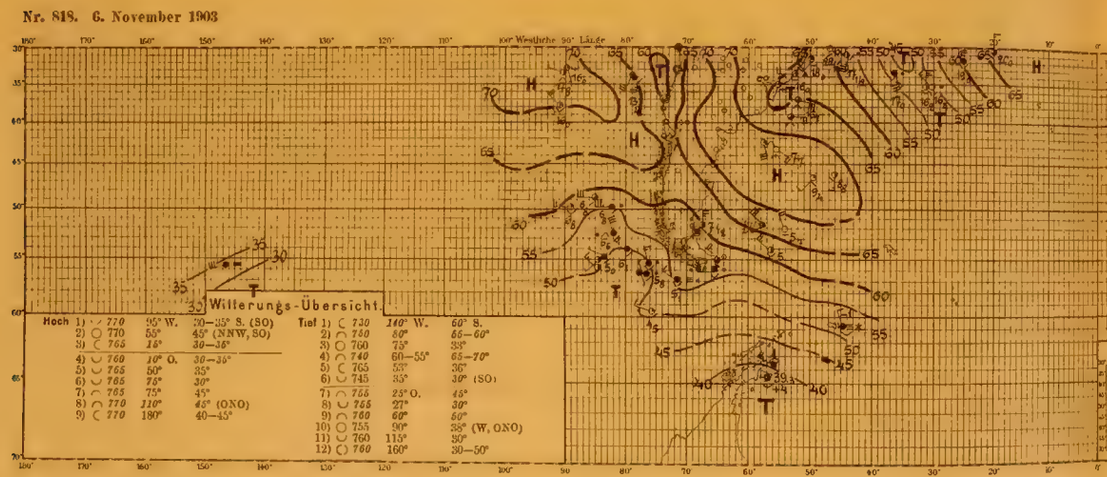
5.—7. November 1903.

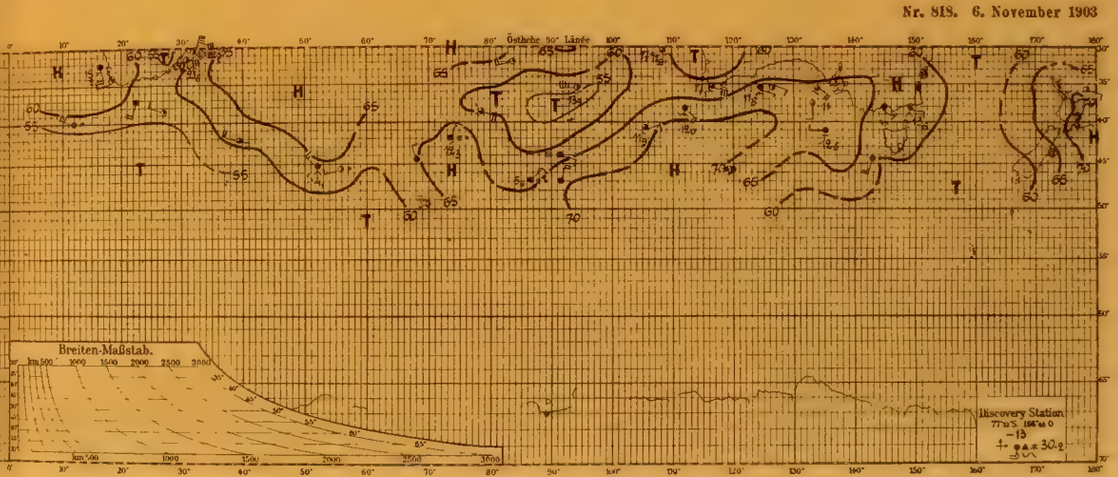
Nr. 817. 5. November 1903



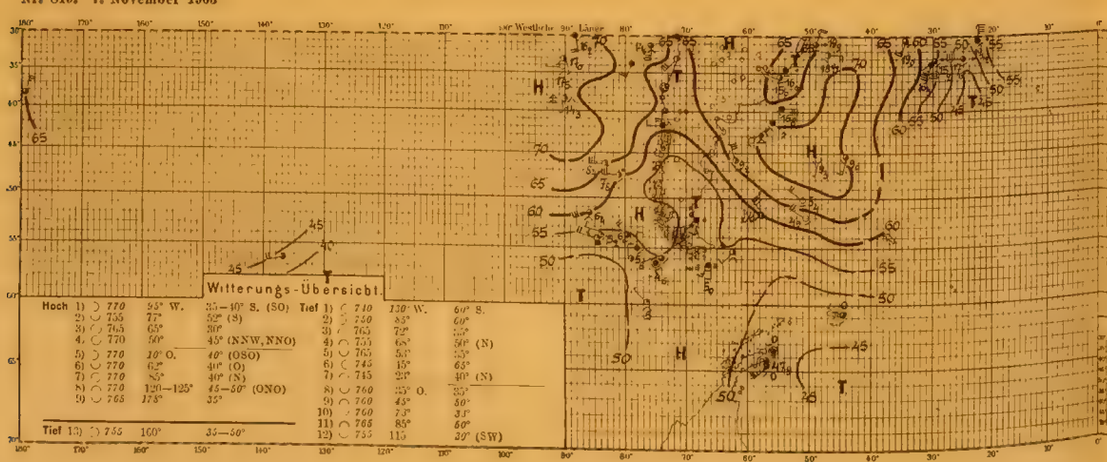


Nr. 818. 6. November 1903

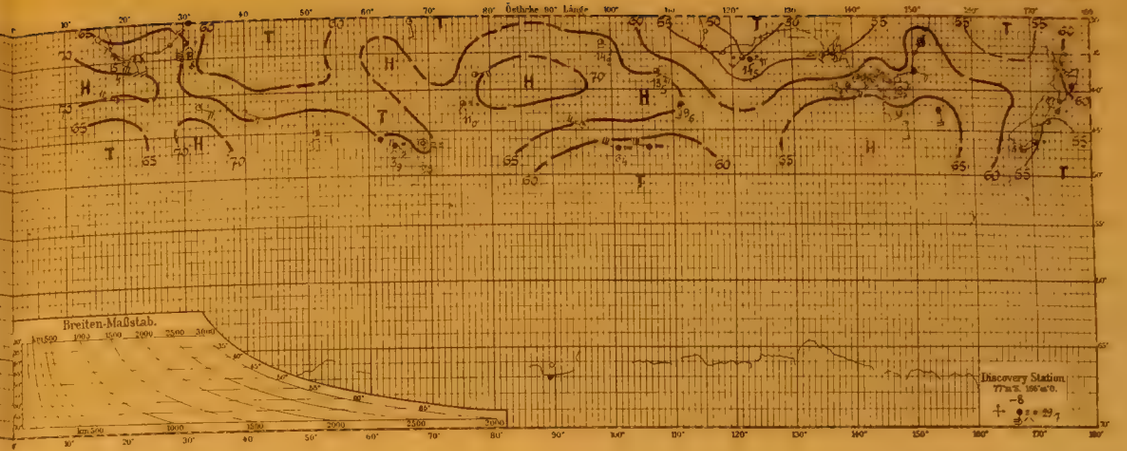




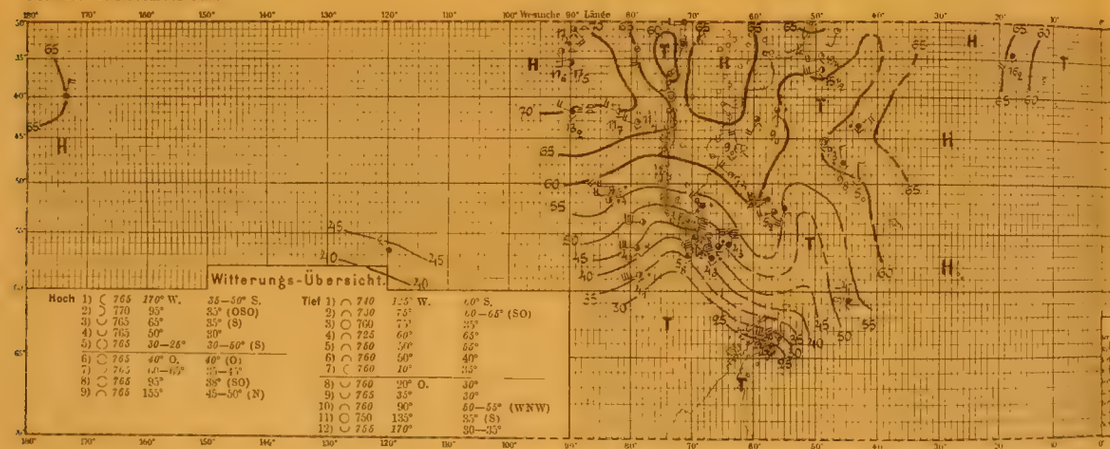
Nr. 819. 7. November 1903

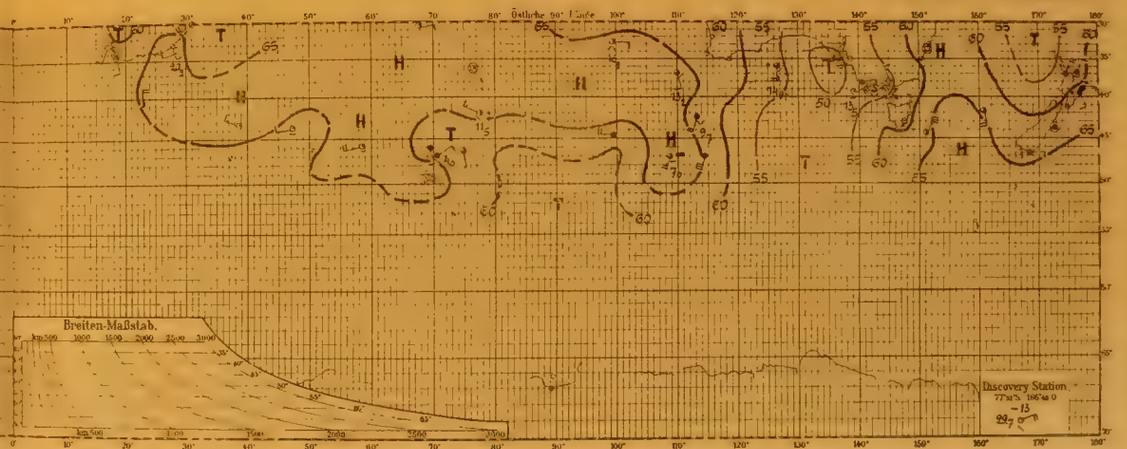


Nr. 820. 8. November 1903

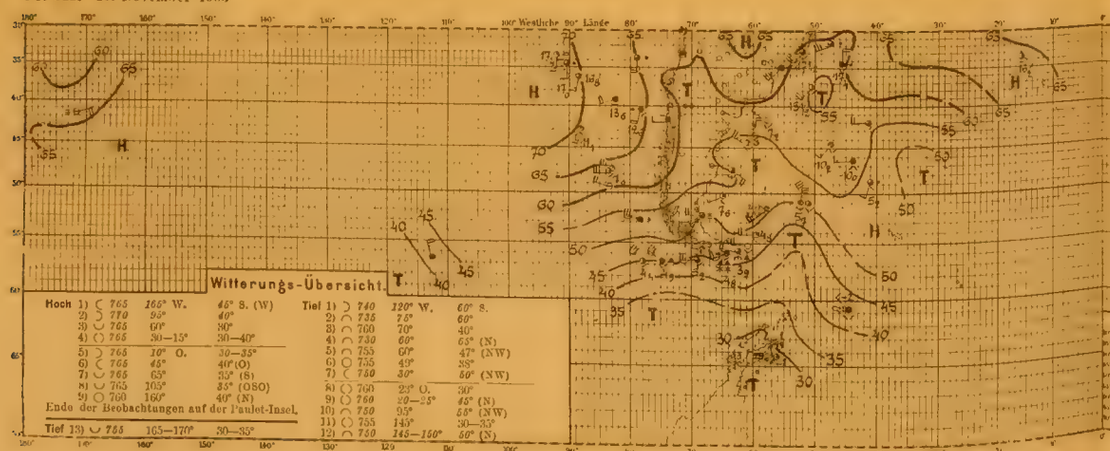


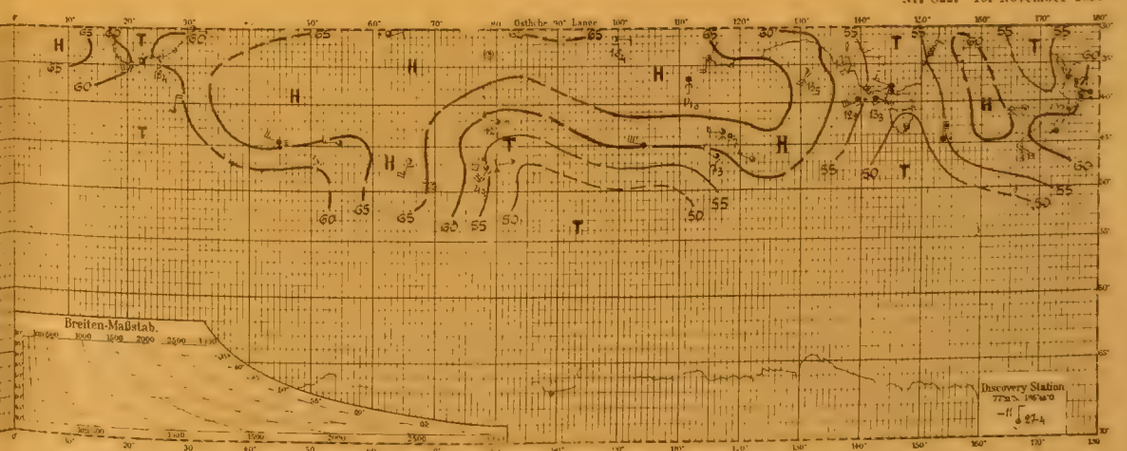
Nr. 821. 9. November 1903





Nr. 822. 10. November 1903



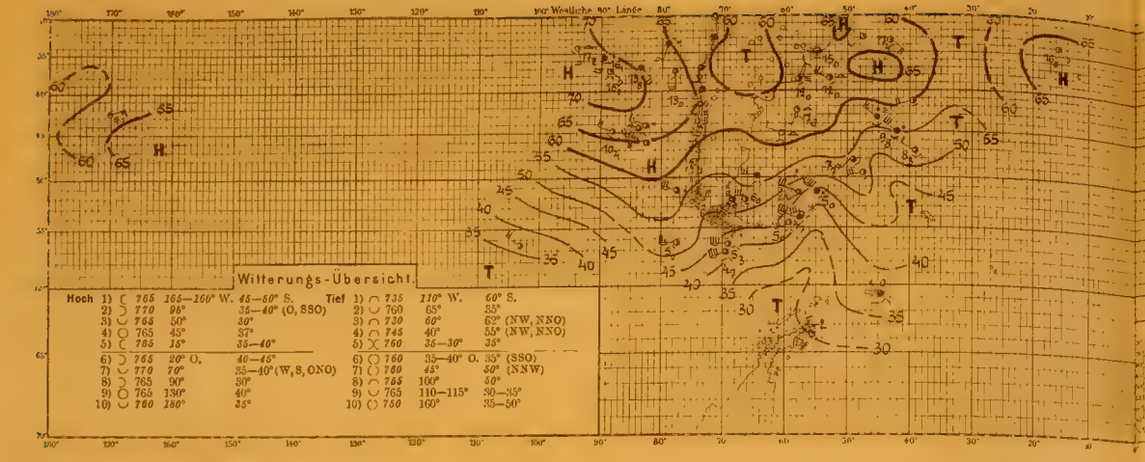


*) 8. November: Tief 13) ∪ 750 125° 80°
14) ∪ 755 165° 30°
15) ∩ 755 175° 60°

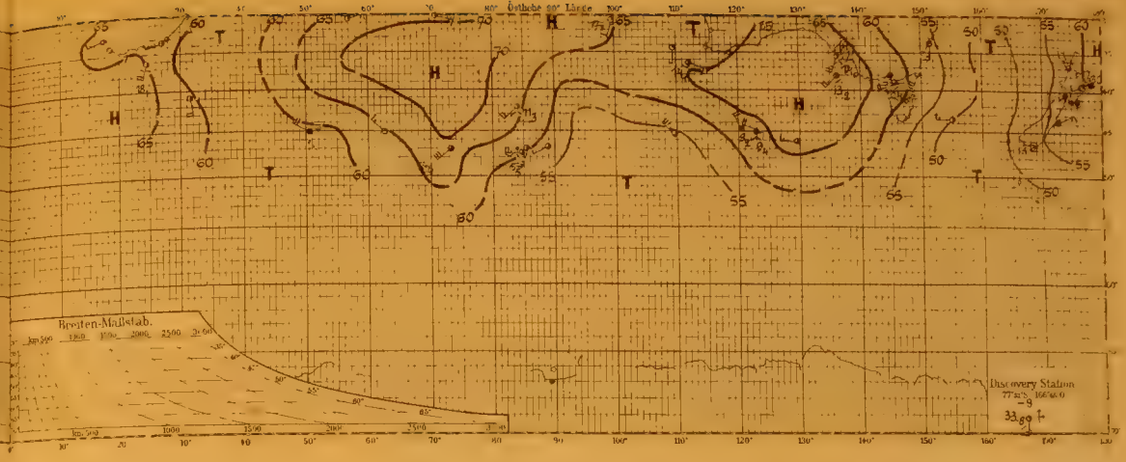
Tafel 275. *Nr. 823—825.*

11. – 13. November 1903.

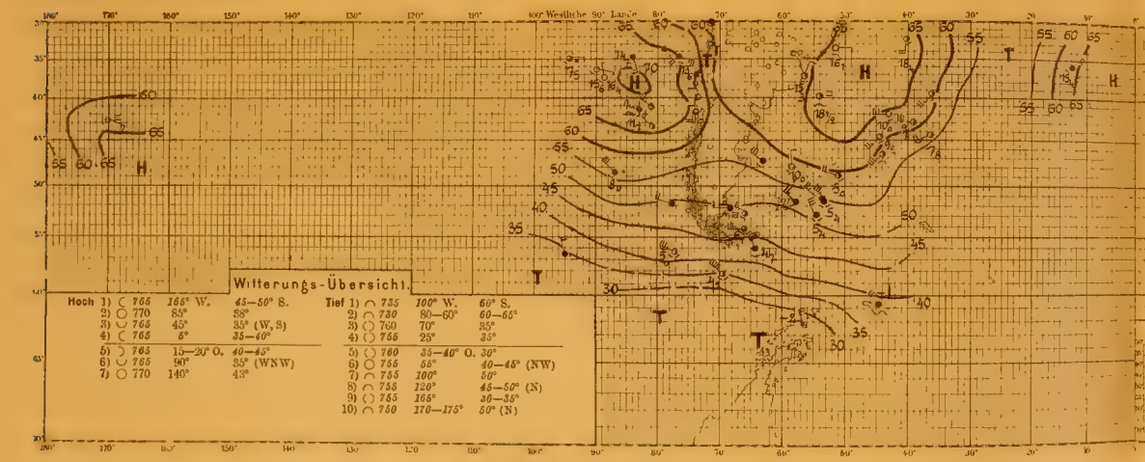
Nr. 823. 11. November 1903



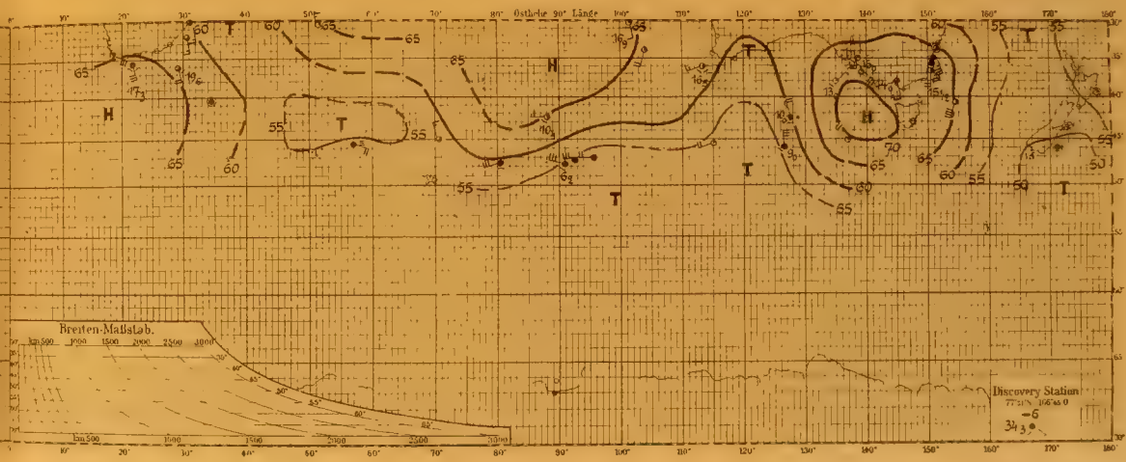
Nr. 823. 11. November 1903



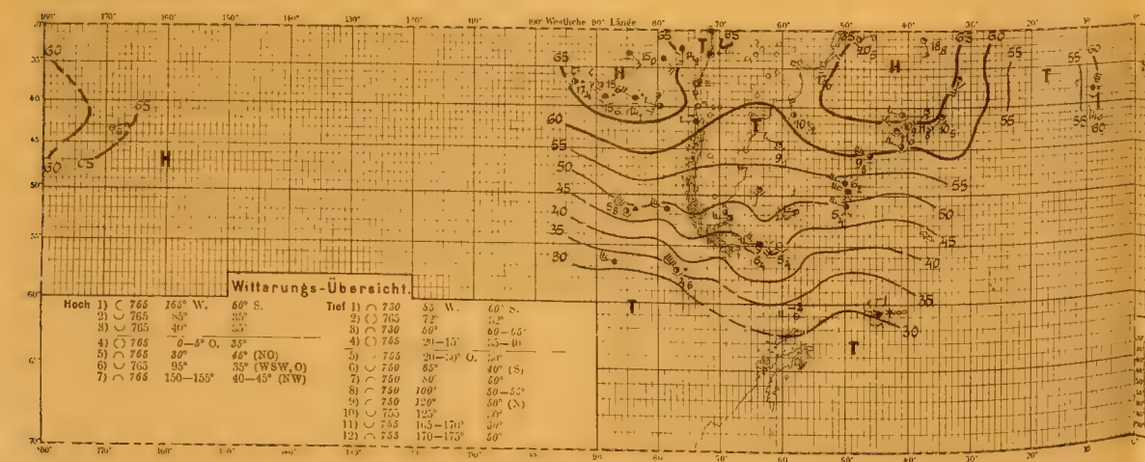
Nr. 824. 12. November 1903



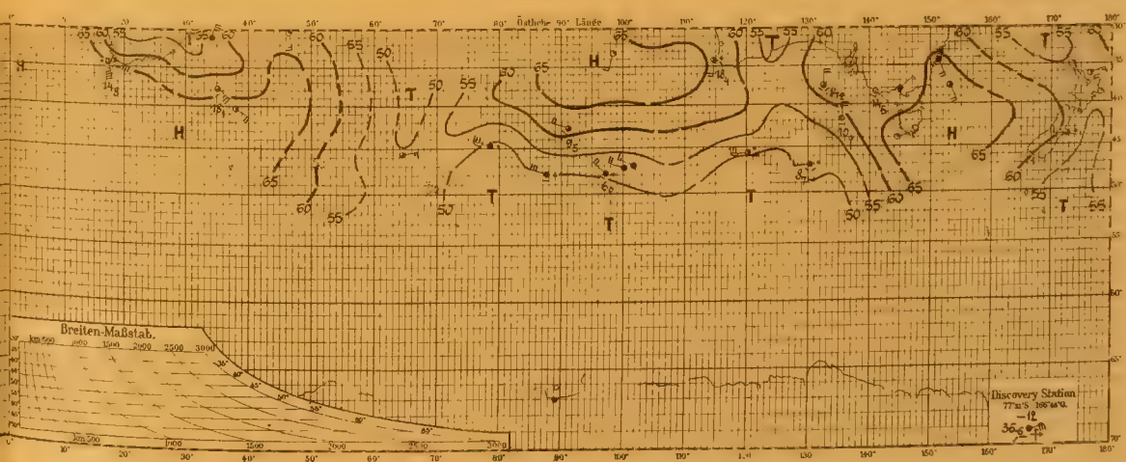
Nr. 824. 12. November 1903



Nr. 825. 13. November 1903



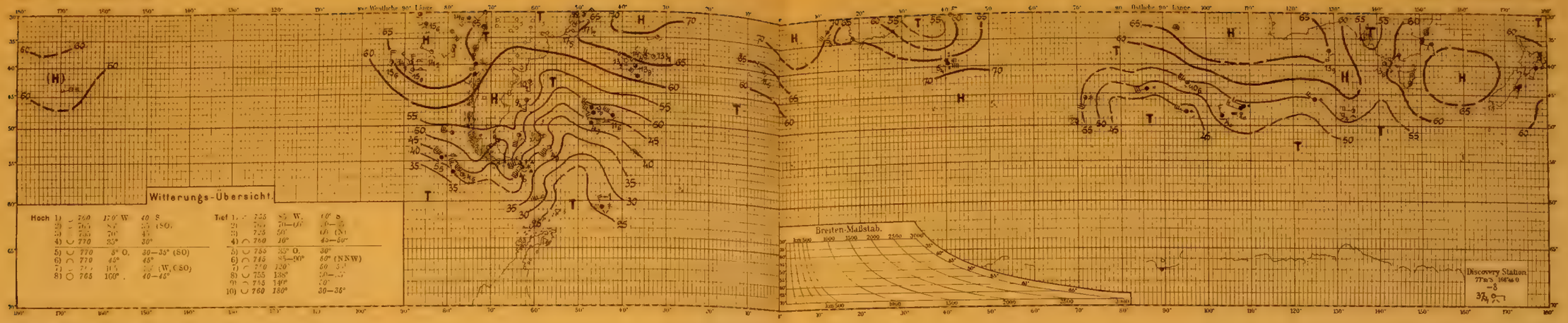
Nr. 825. 13. November 1903



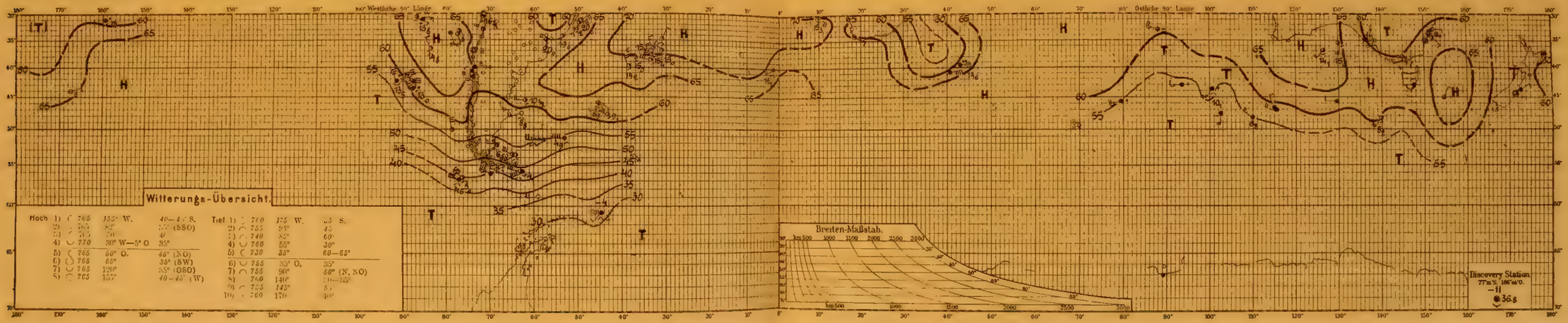
Tafel 276. *Nr. 826—828.*

14.—16. November 1903.

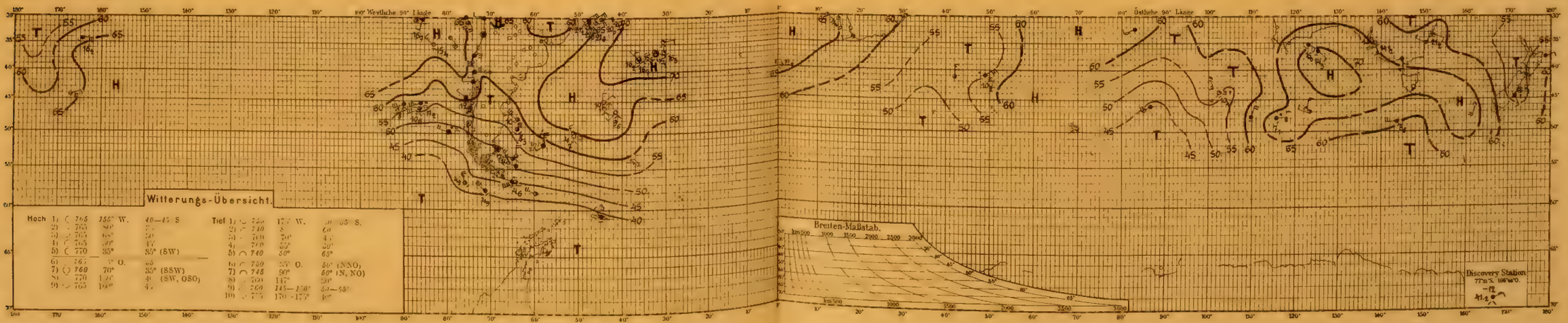
Nr. 826. 14. November 1903



Nr. 827. 15. November 1903



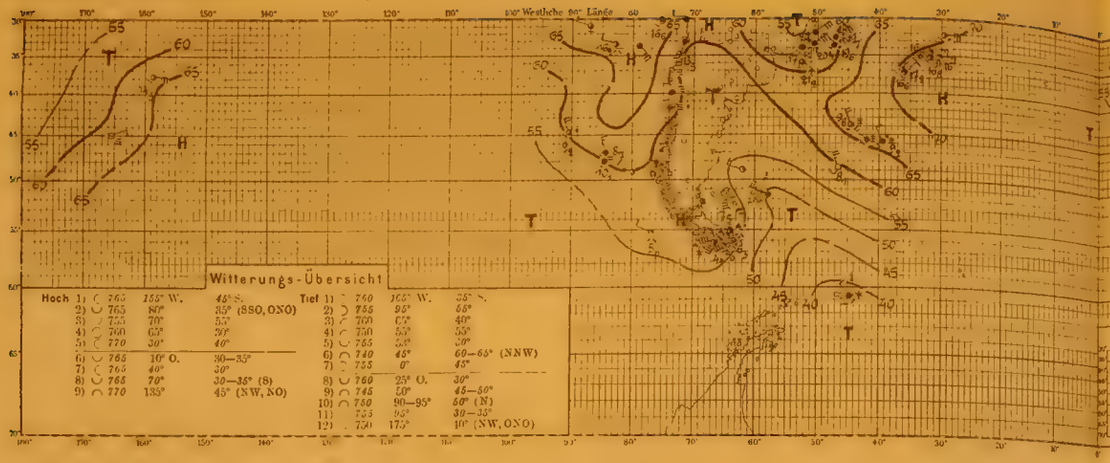
Nr. 828. 16. November 1903

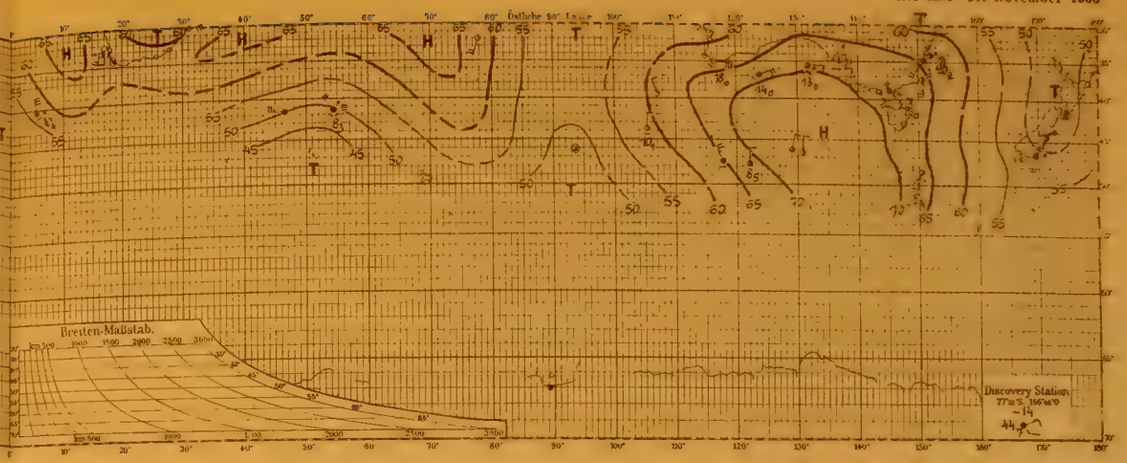


Tafel 277. *Nr. 829—831.*

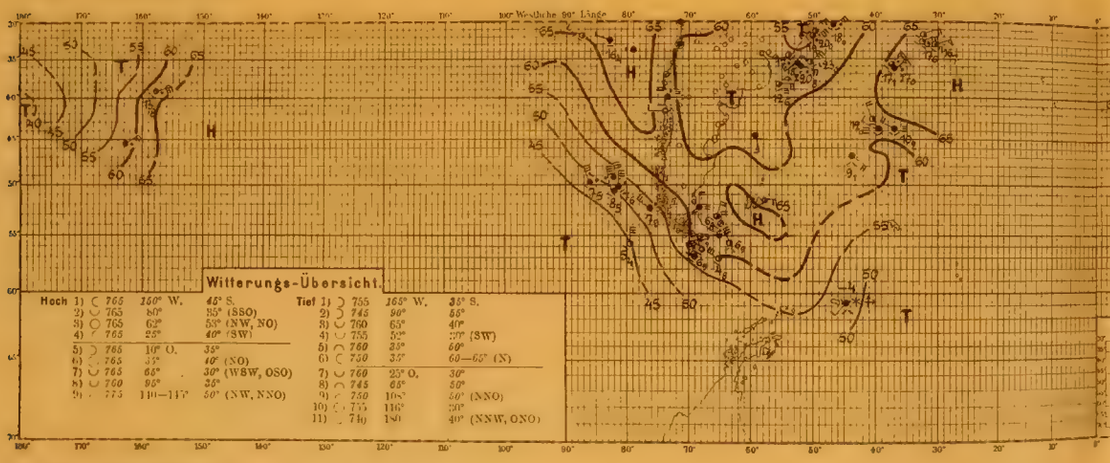
17.—19. November 1903.

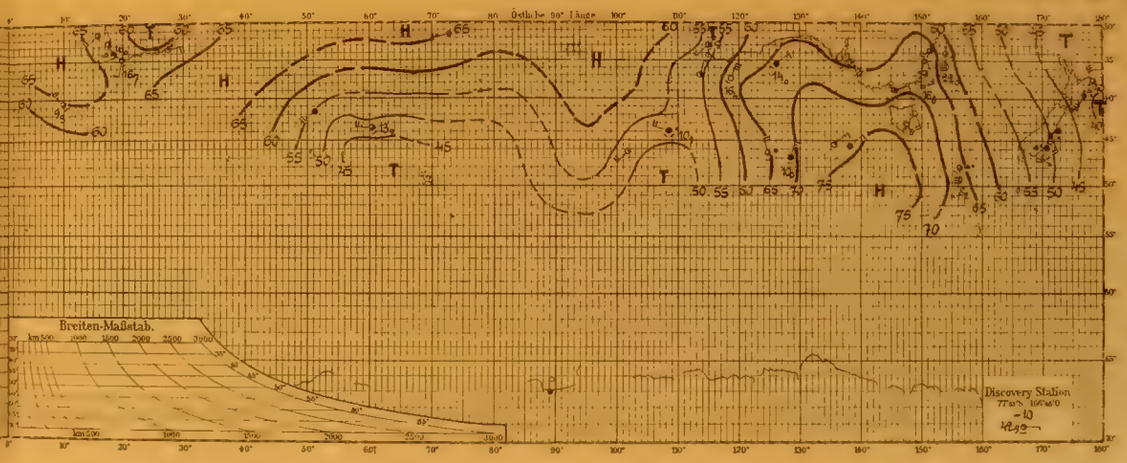
Nr. 829. 17. November 1903



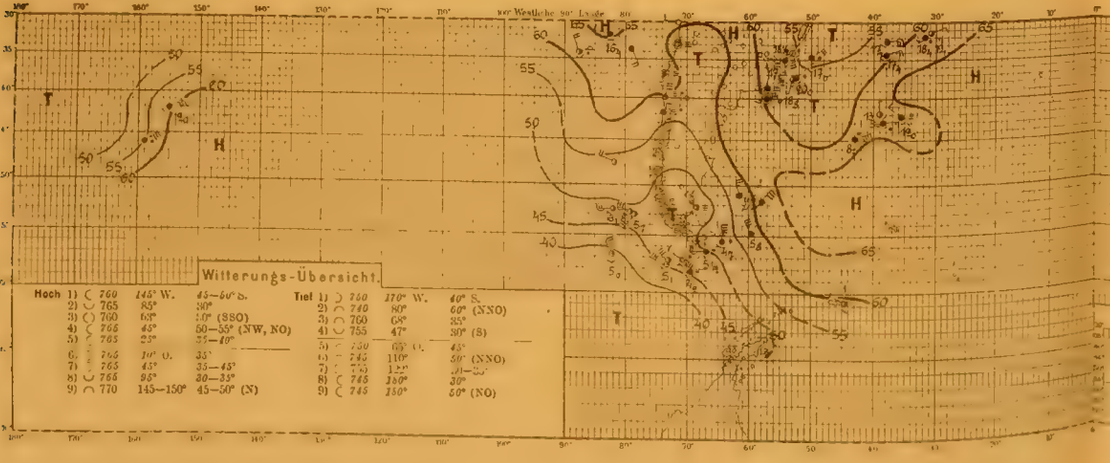


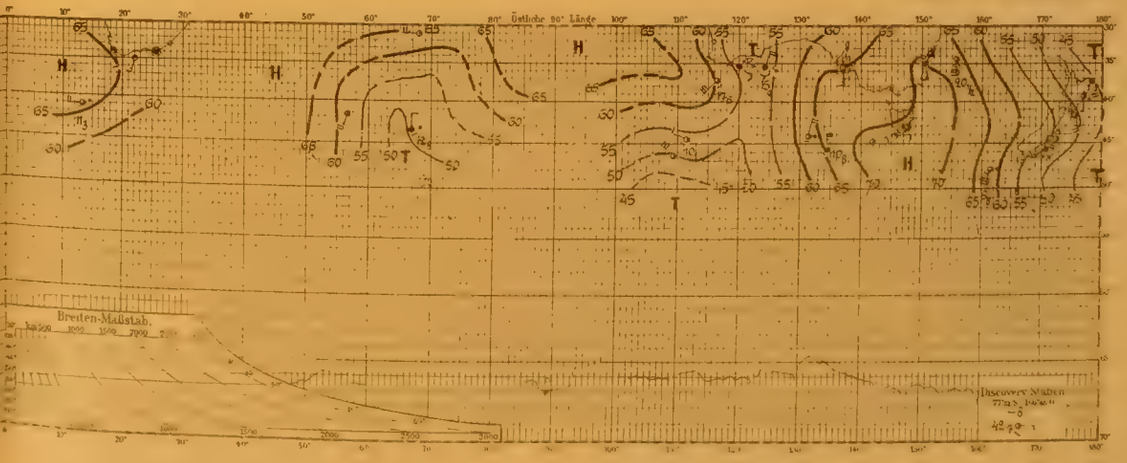
Nr. 830. 18. November 1903





Nr. 831. 19. November 1903

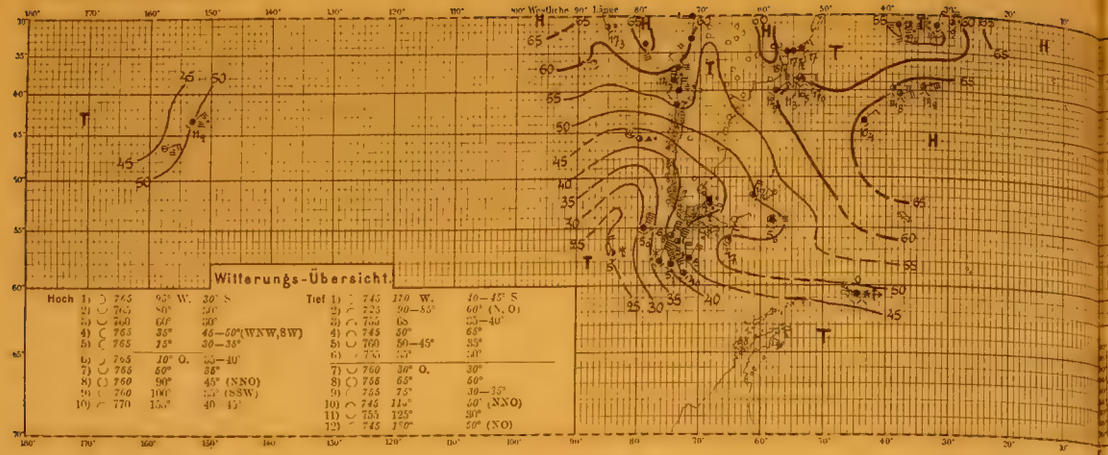


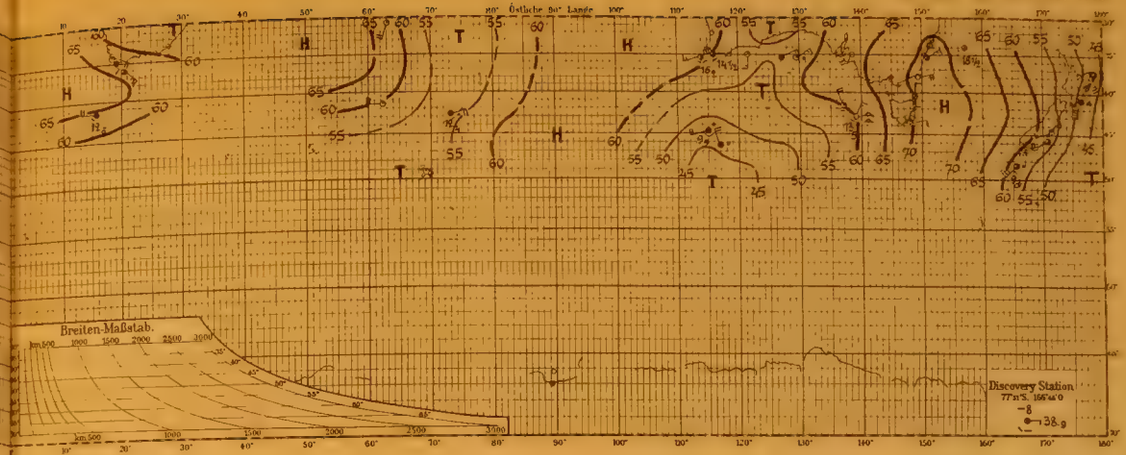


Tafel 278. *Nr. 832—834.*

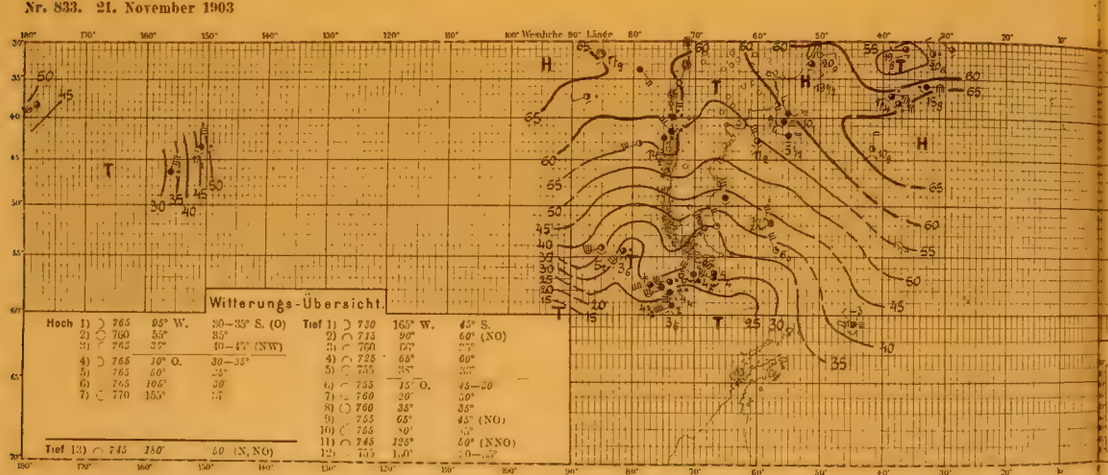
20.—22. November 1903.

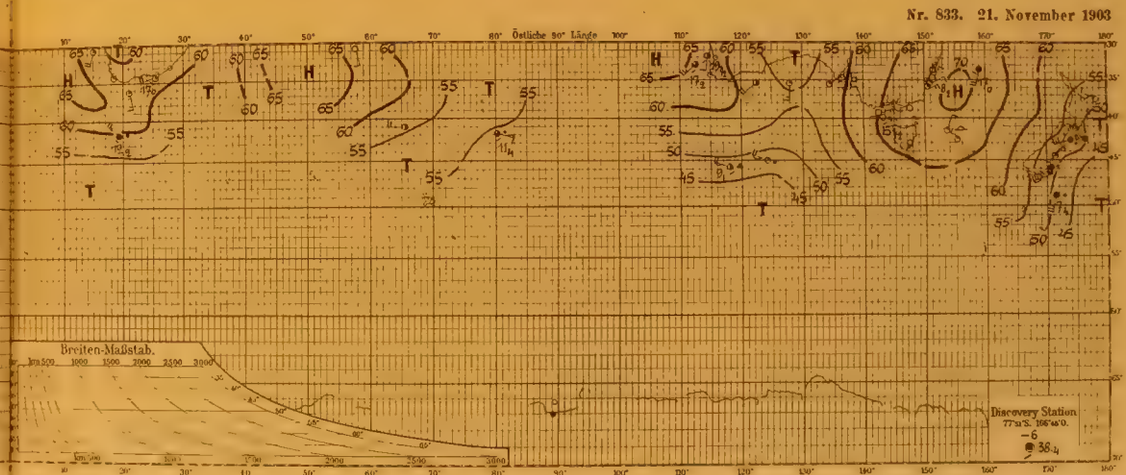
Nr. 832. 20. November 1903



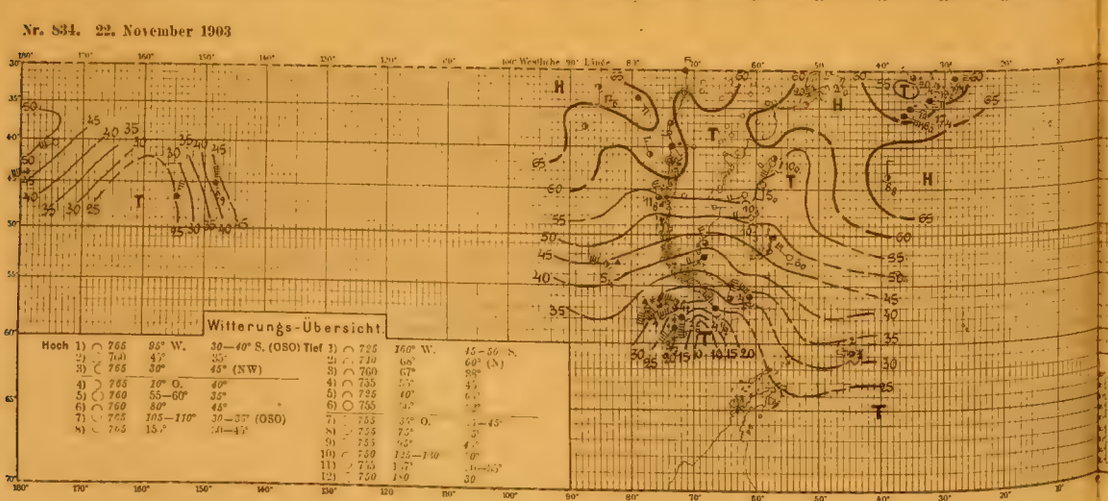


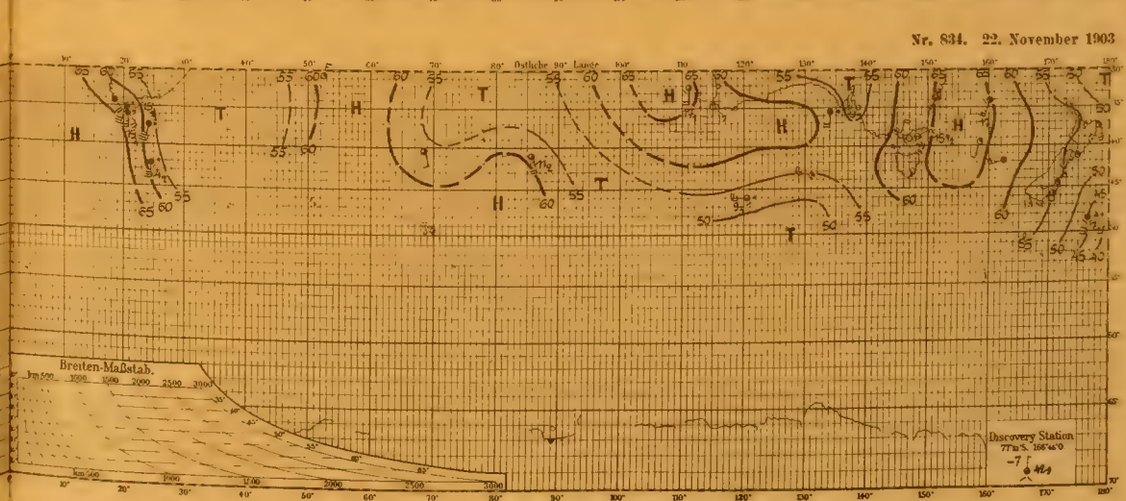
Nr. 833. 21. November 1903





Nr. 834. 22. November 1903

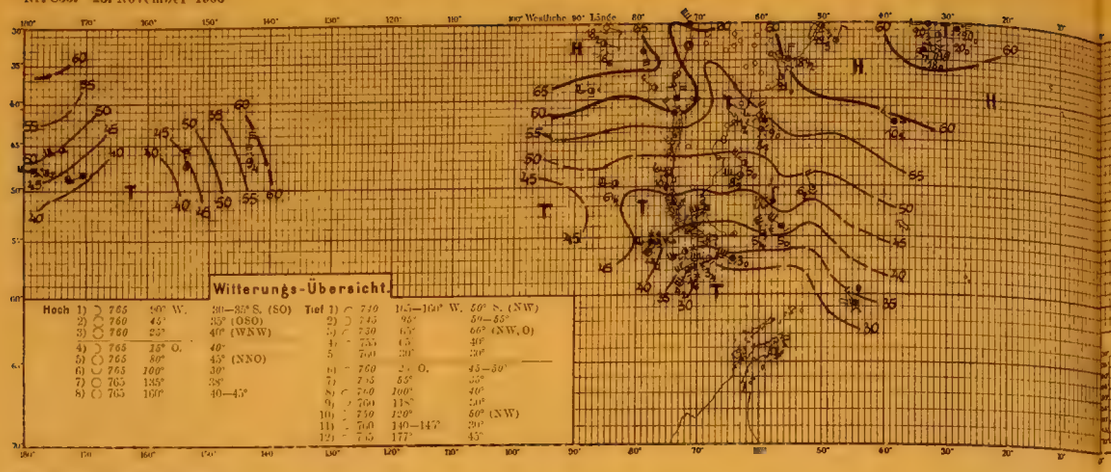




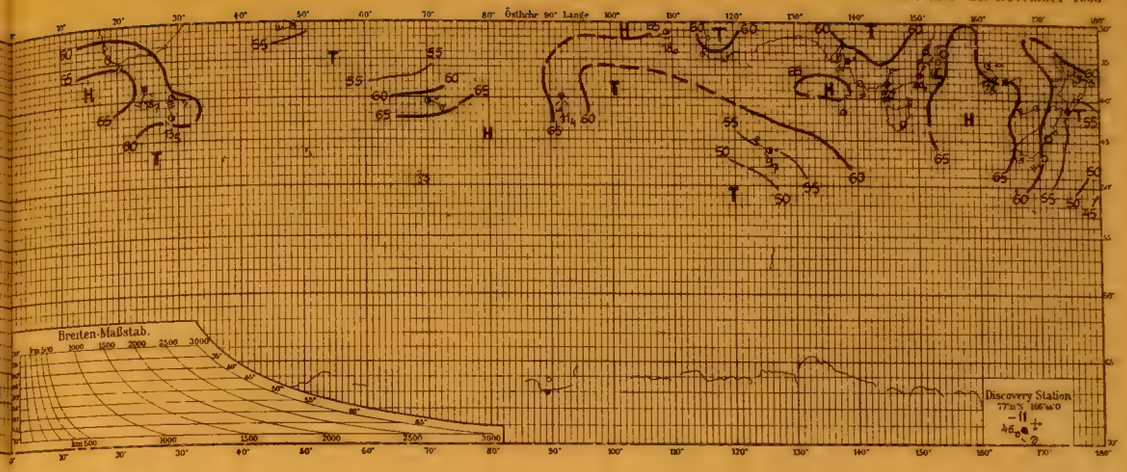
Tafel 279. Nr. 835–837.

23. – 25. November 1903.

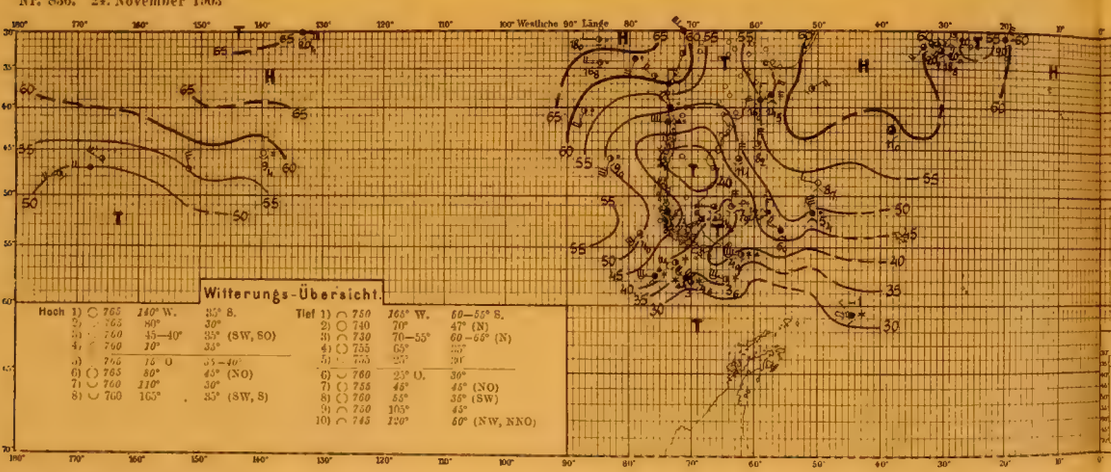
Nr. 835. 23. November 1903



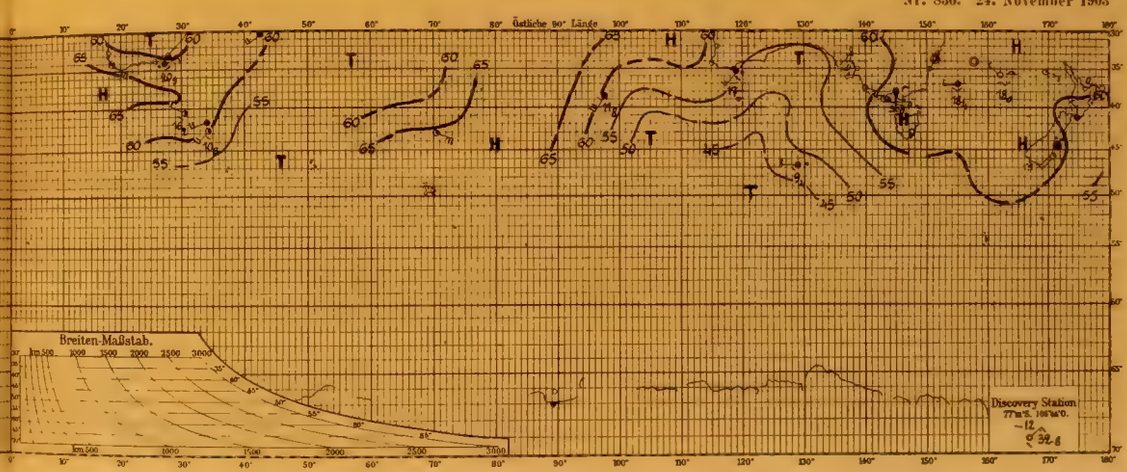
Nr. 835. 23. November 1903



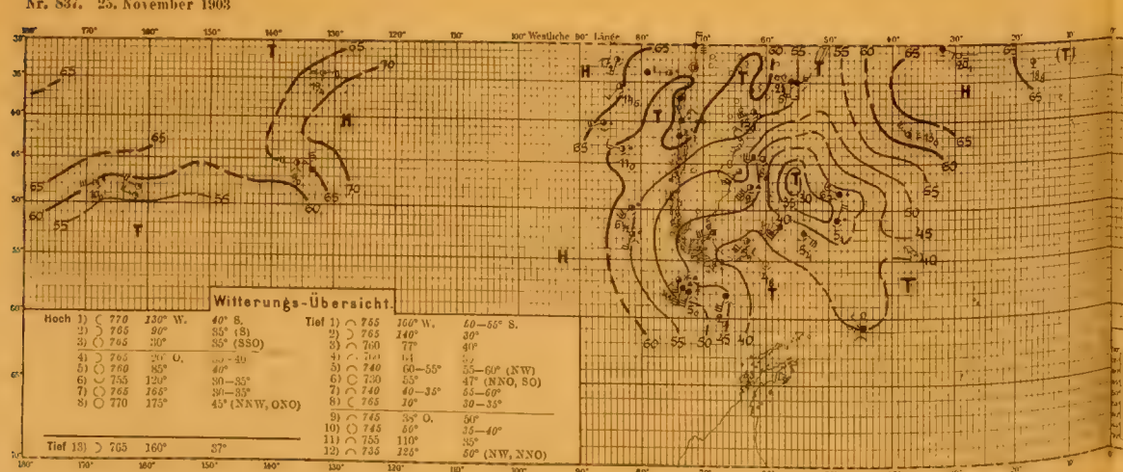
Nr. 836. 24. November 1903



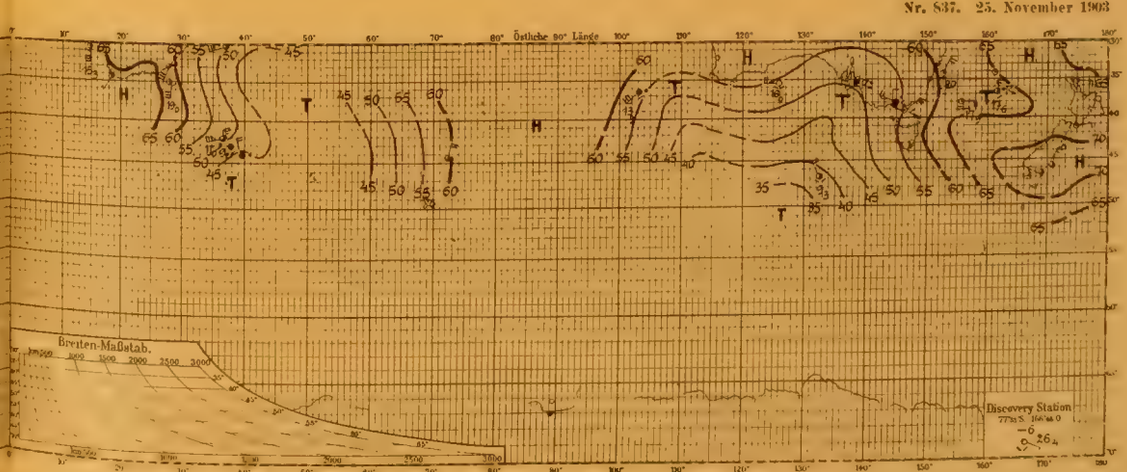
Nr. 836. 24. November 1903



Nr. 837. 25. November 1903



Nr. 837. 25. November 1903

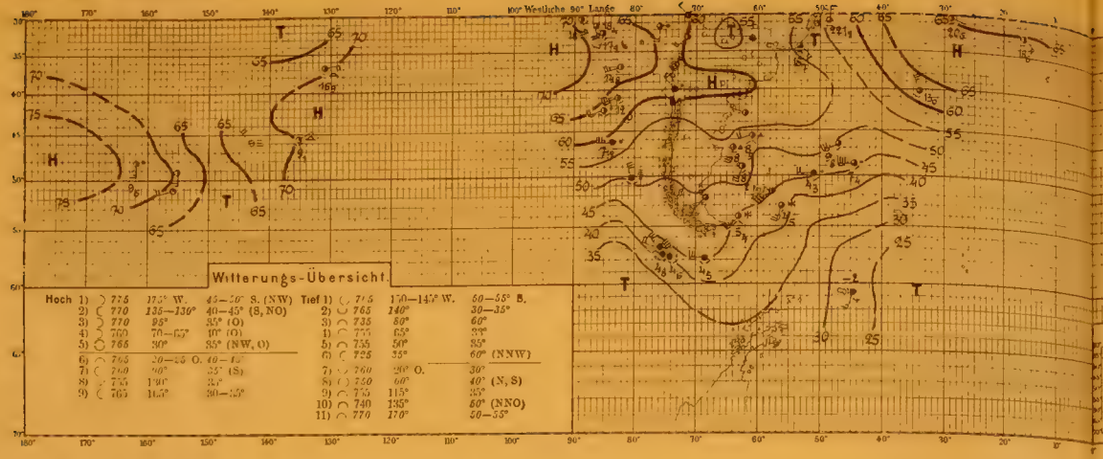


Tafel 280. Nr. 838—840.

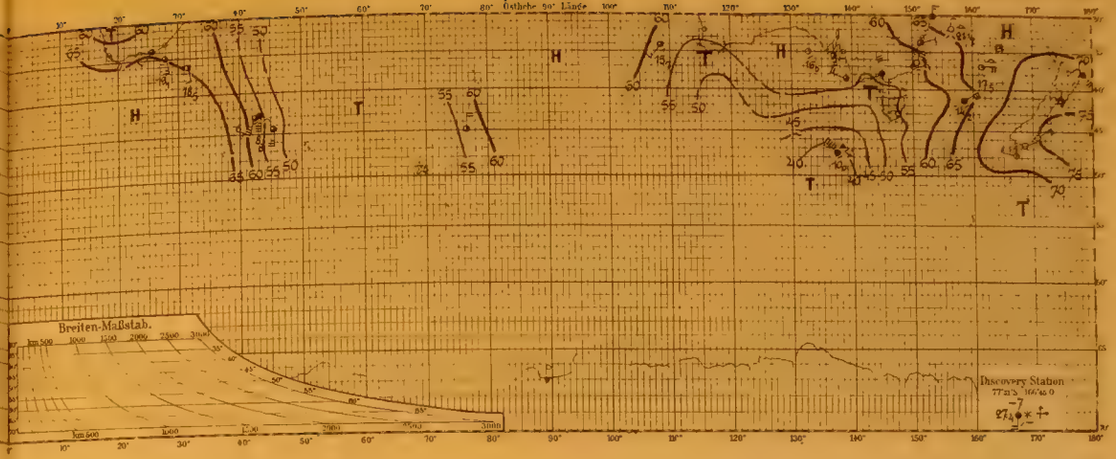
26.—28. November 1903.

MARINE BIOLOGICAL LABORATORY
WOODS HOLE
LIBRARY
MASS.

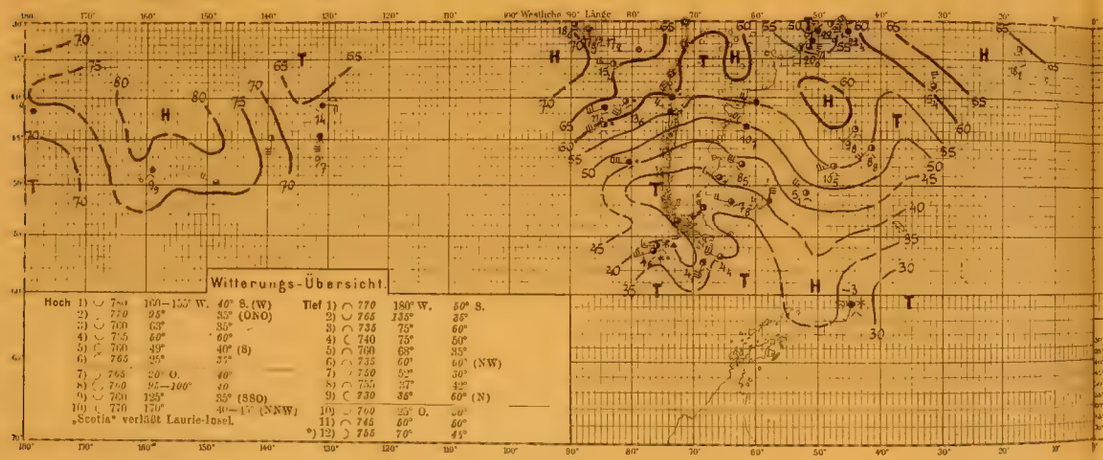
Nr. 838. 26. November 1903



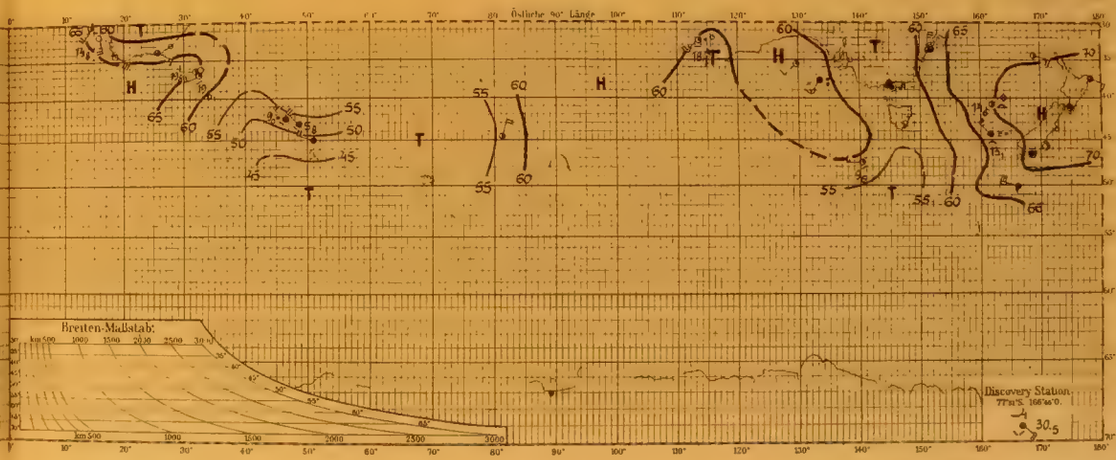
Nr. 838. 26. November 1903



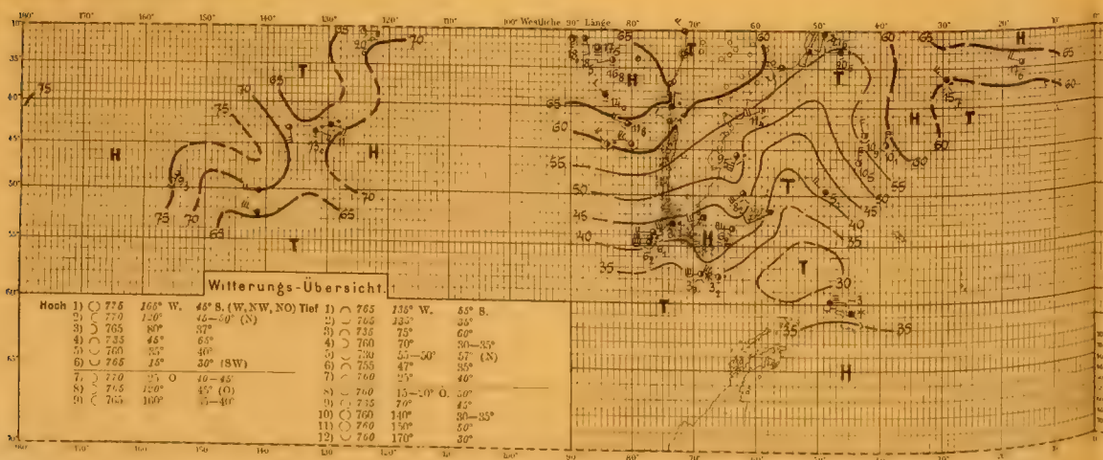
Nr. 839. 27. November 1903



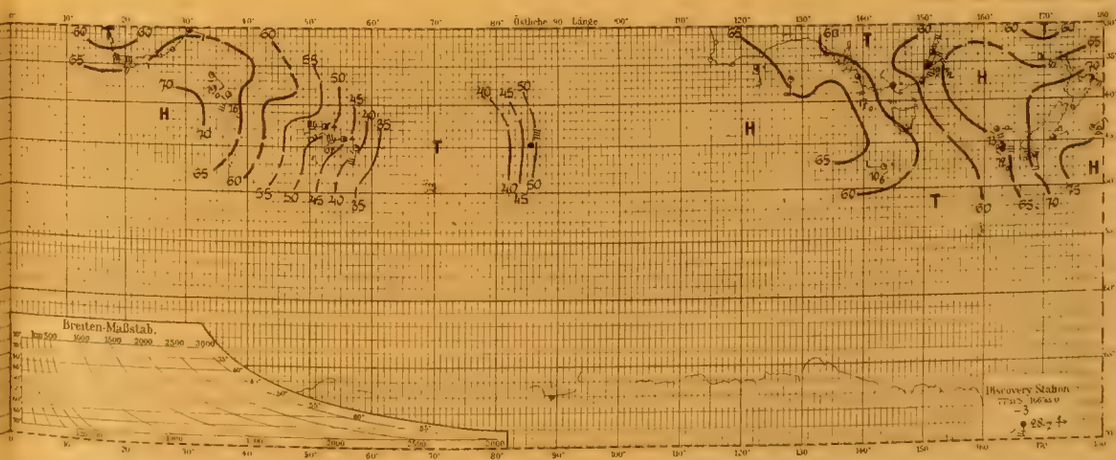
Nr. 839. 27. November 1903



Nr. 840. 28. November 1903



Nr. 840. 28. November 1903

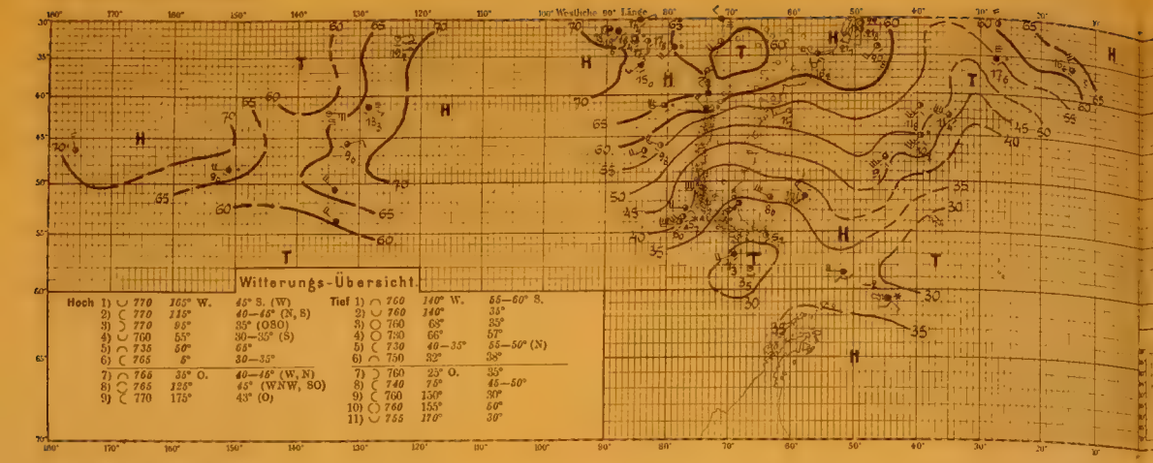


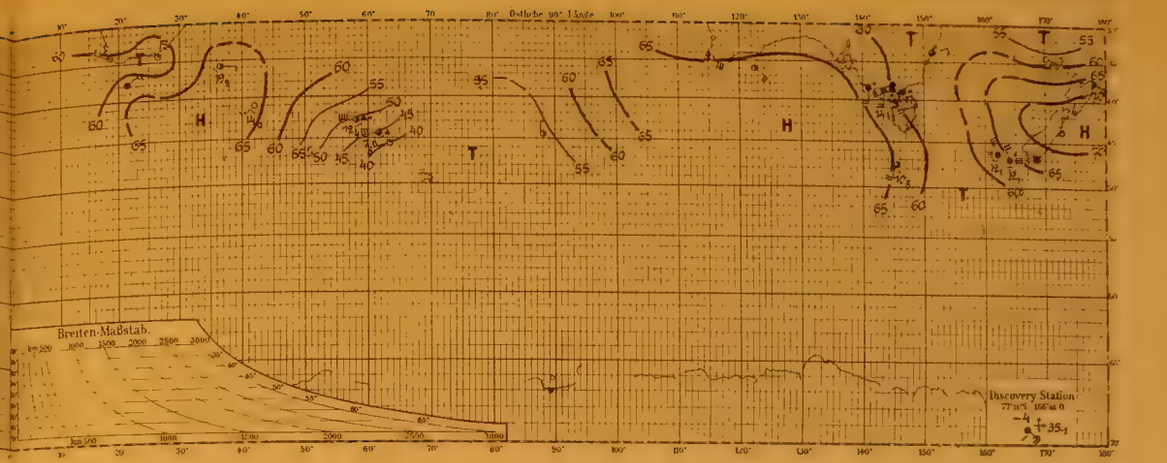
*) 27. November: Tief 13) ◯ 760 115° 35°
14) ◯ 760 143° 30—35°
15) ◯ 755 145° 60° (N)

Tafel 281. *Nr. 841—843.*

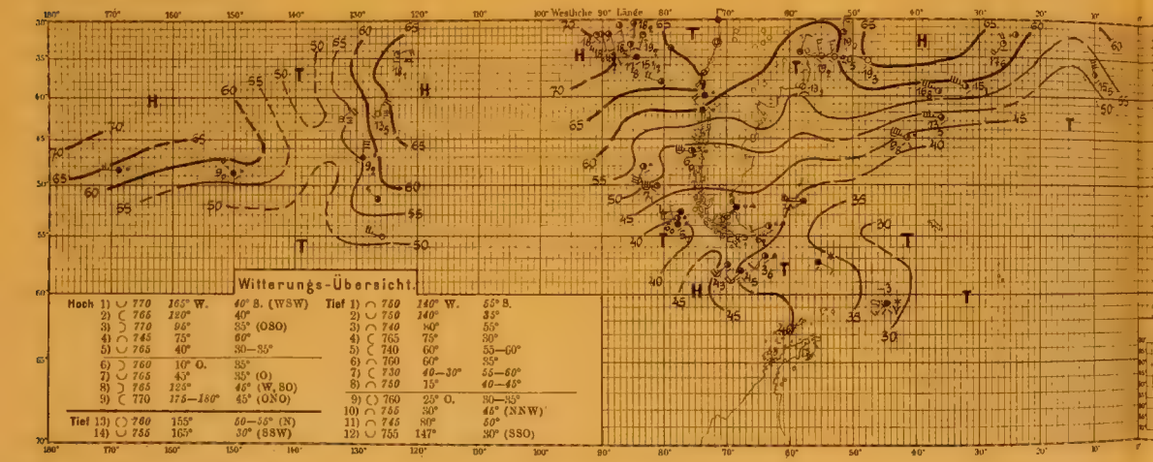
29. November—1. Dezember 1903.

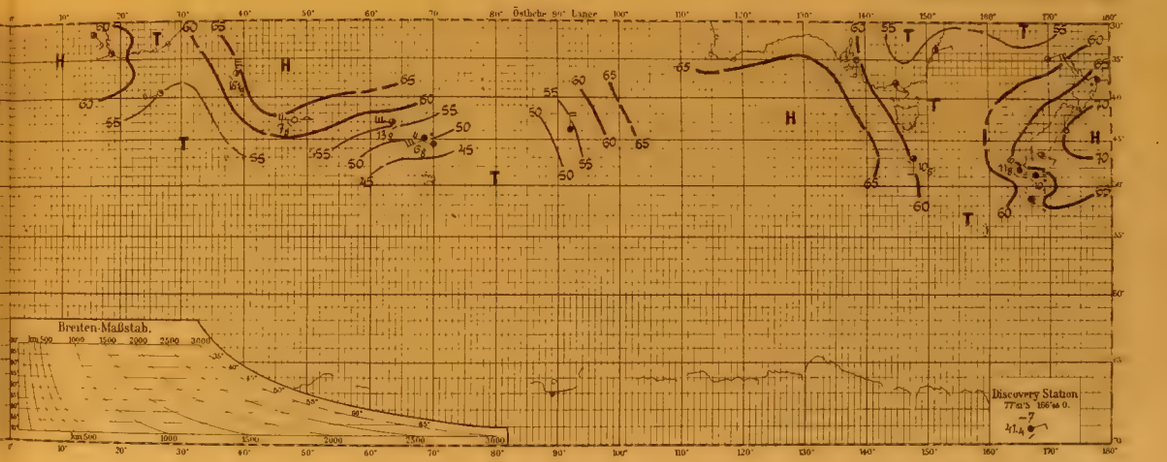
Nr. 841. 29. November 1903



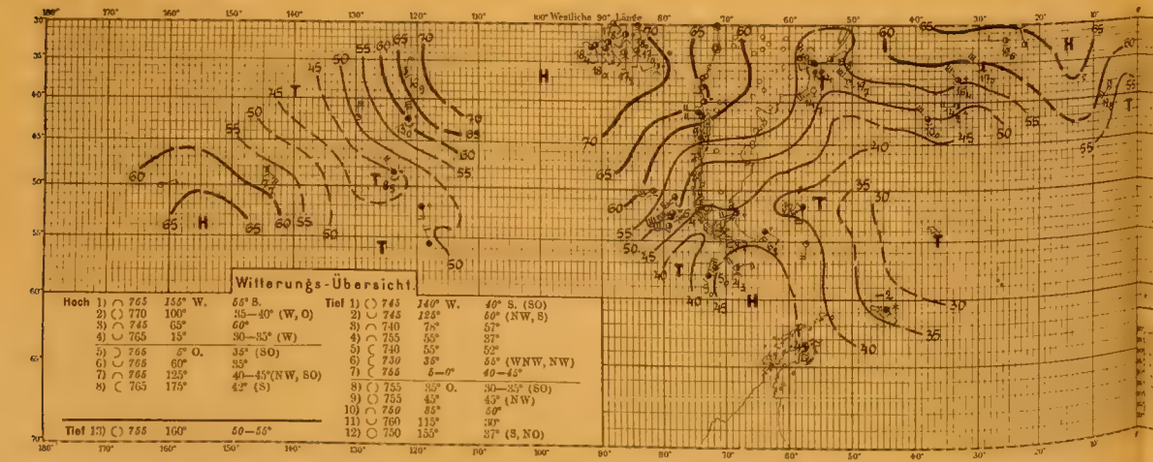


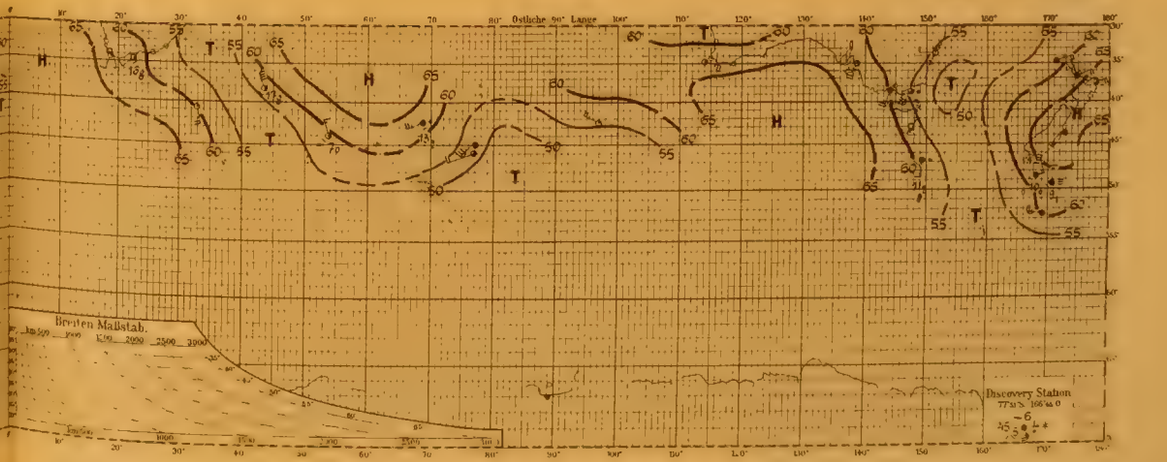
Nr. 842. 30. November 1903





Nr. 843. 1. Dezember 1903

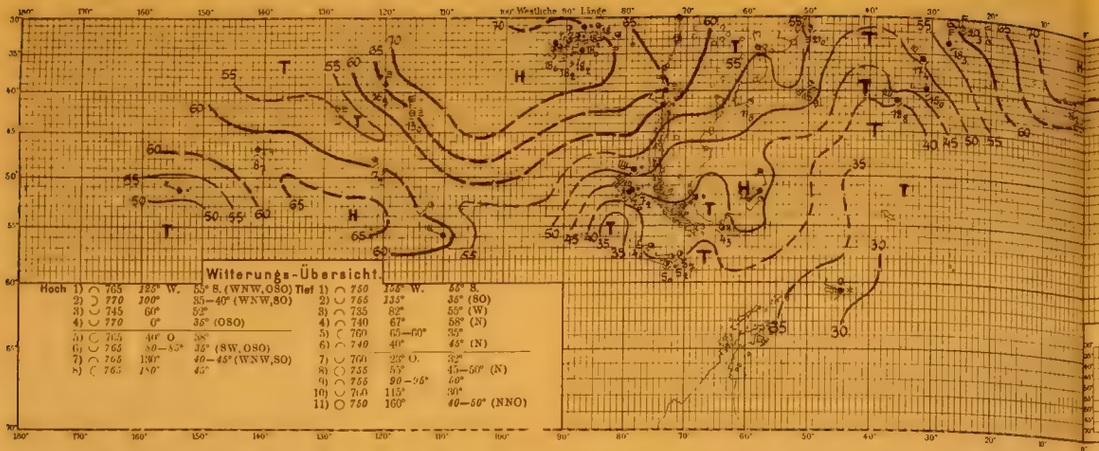




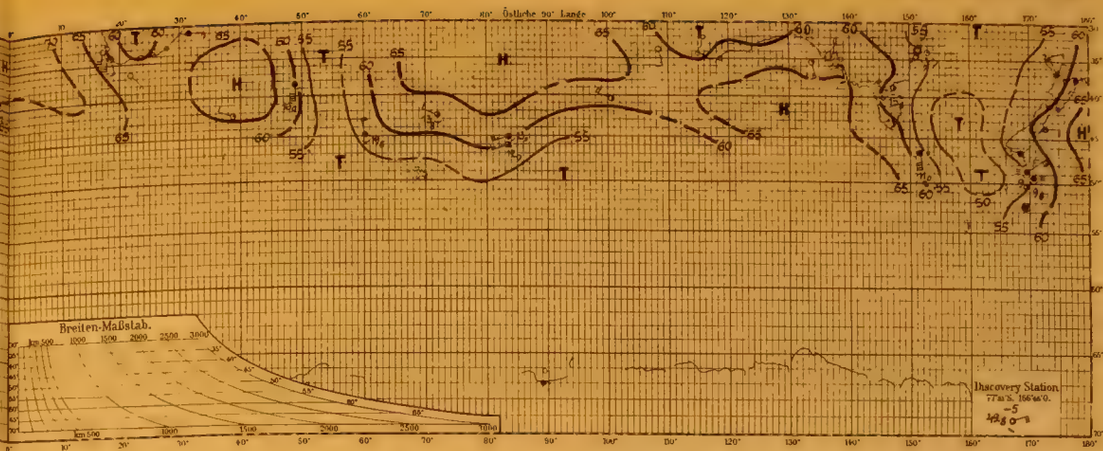
Tafel 282. *Nr. 844—846.*

2.—4. Dezember 1903.

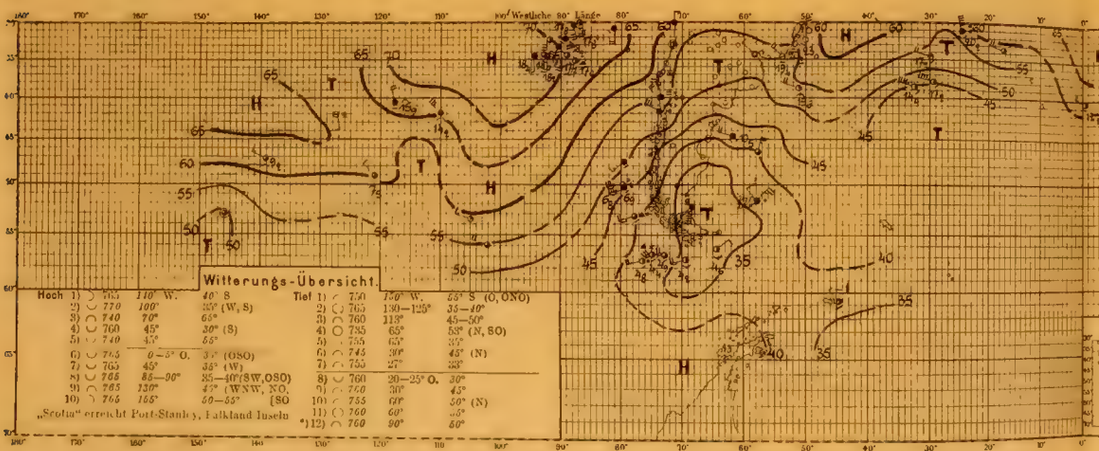
Nr. 844. 2. Dezember 1903



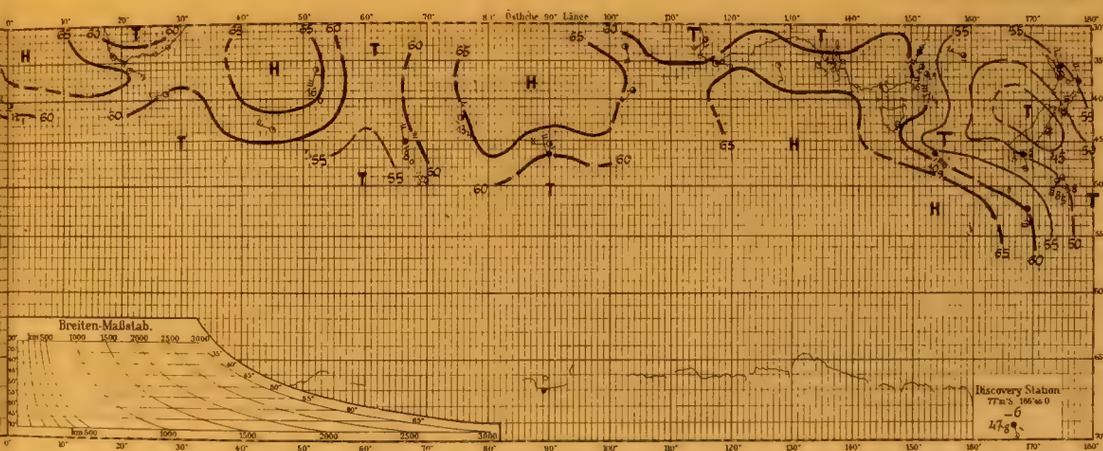
Nr. 844. 2. Dezember 1903



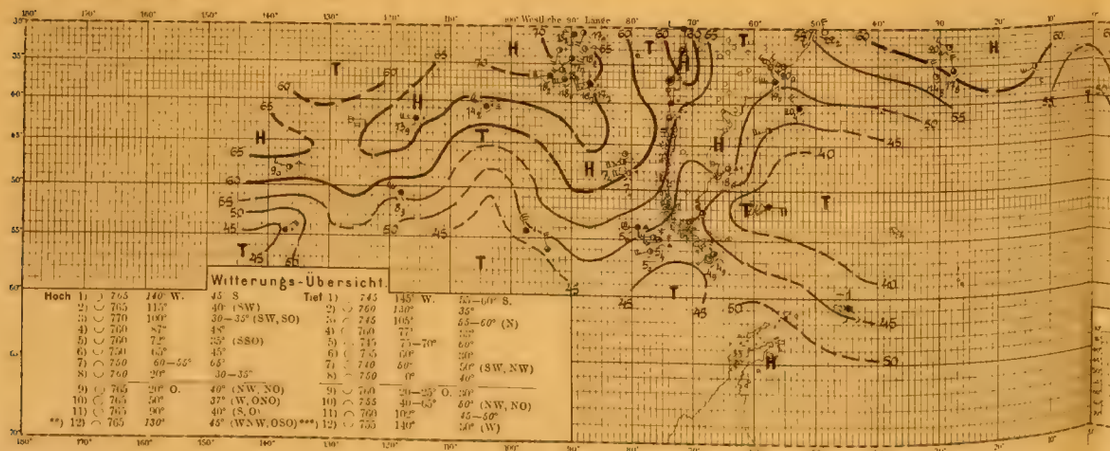
Nr. 845. 3. Dezember 1903



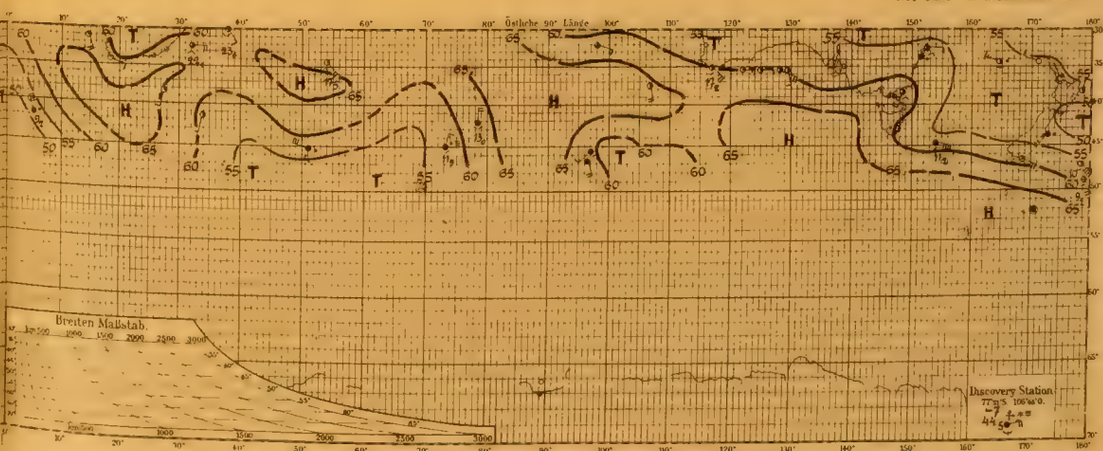
Nr. 845. 3. Dezember 1903



Nr. 846. 4. Dezember 1903



Nr. 846. 4. Dezember 1903

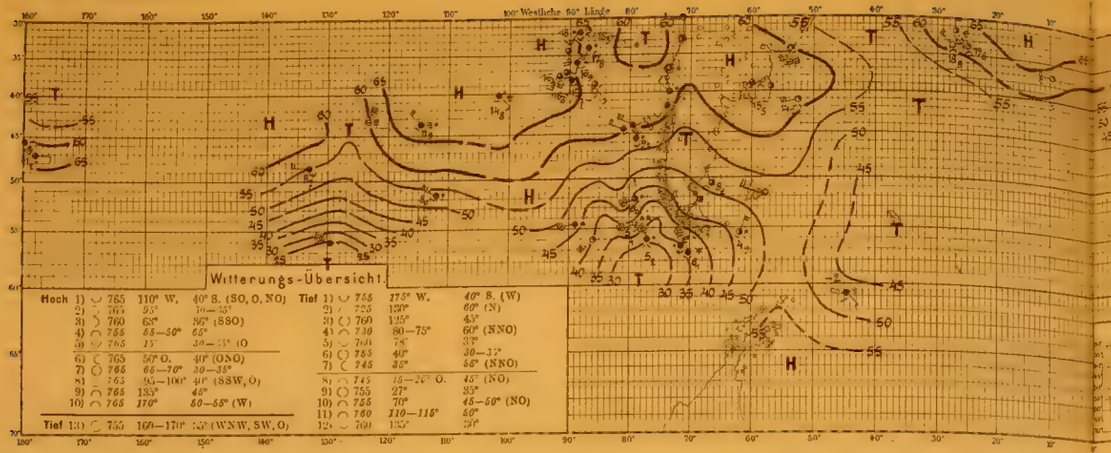


*) 3. Dezember: Tief 13) 760 115° 30°
14) 760 135° 30°
15) 745 170° 42° (WSW, SO)

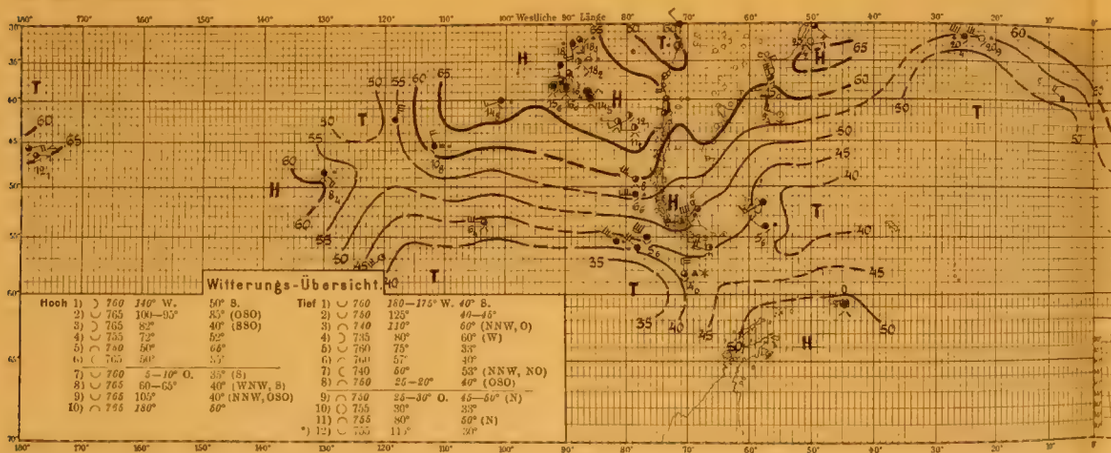
**) 4. Dezember: Hoch 13) 765 160—165° 50—55°

***) „ Tief 13) 750 180° 42° (WNW)

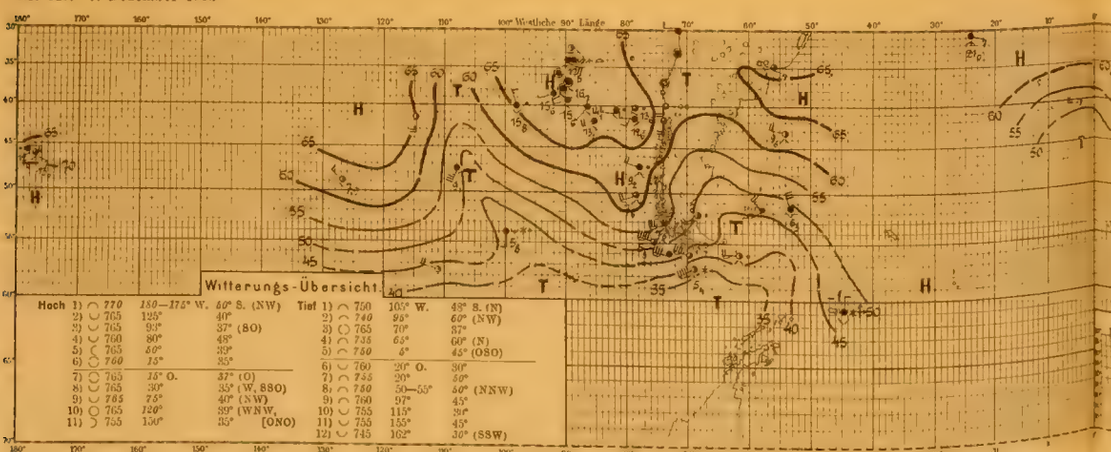
Nr. 847. 5. Dezember 1903



Nr. 848. 6. Dezember 1903



Nr. 849. 7. Dezember 1903

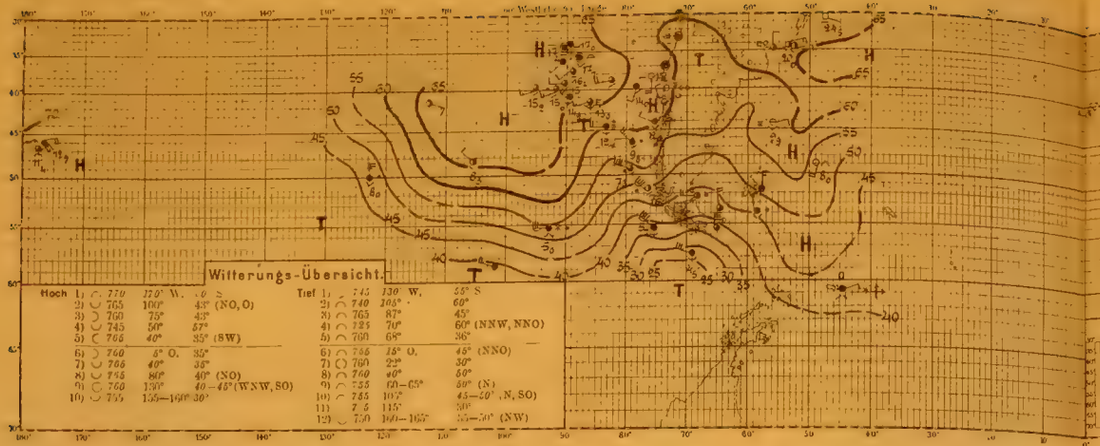


*) 6. Dezember: Tief 13) ◠ 760 115—120° 50°
14) ◡ 750 150° 30° (SO)
15) ◠ 755 160° 37° (W, ONO)

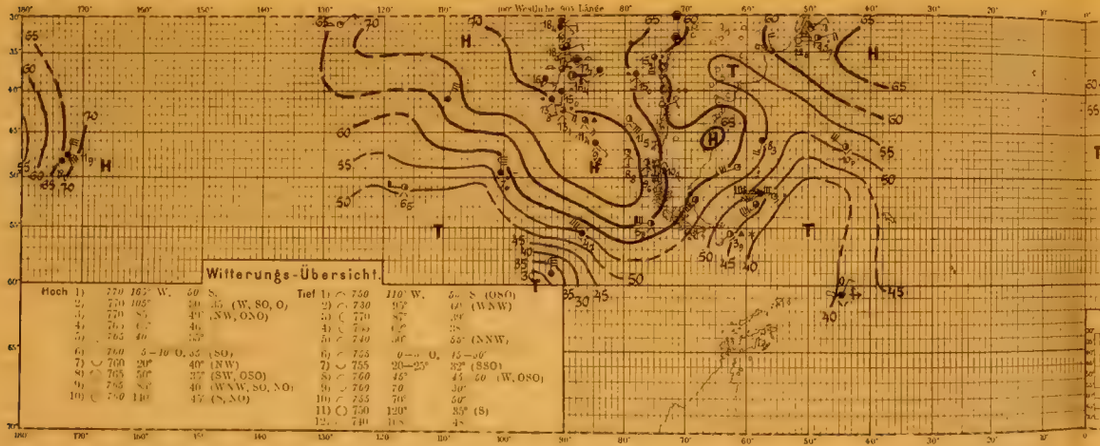
Tafel 284. *Nr. 850—852.*

8.—10. Dezember 1903.

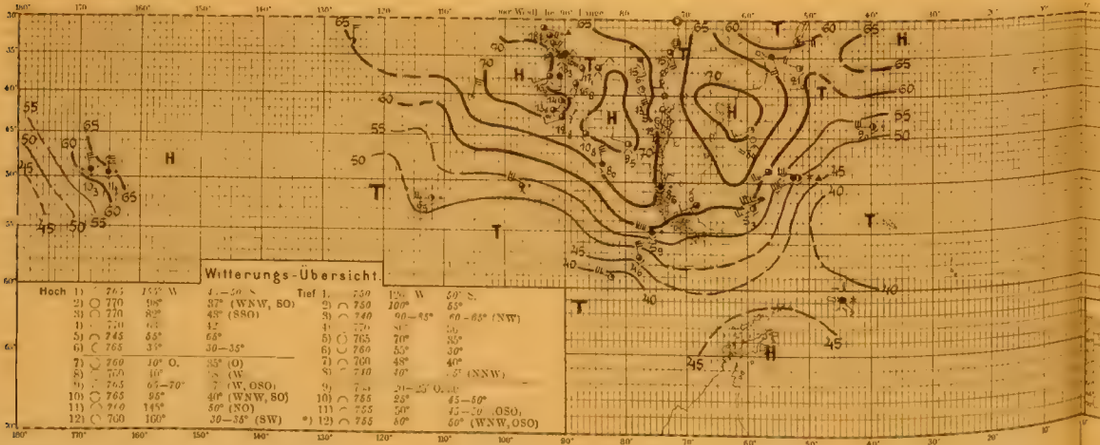
Nr. 850. 8. Dezember 1903



Nr. 851. 9. Dezember 1903



Nr. 852. 10. Dezember 1903

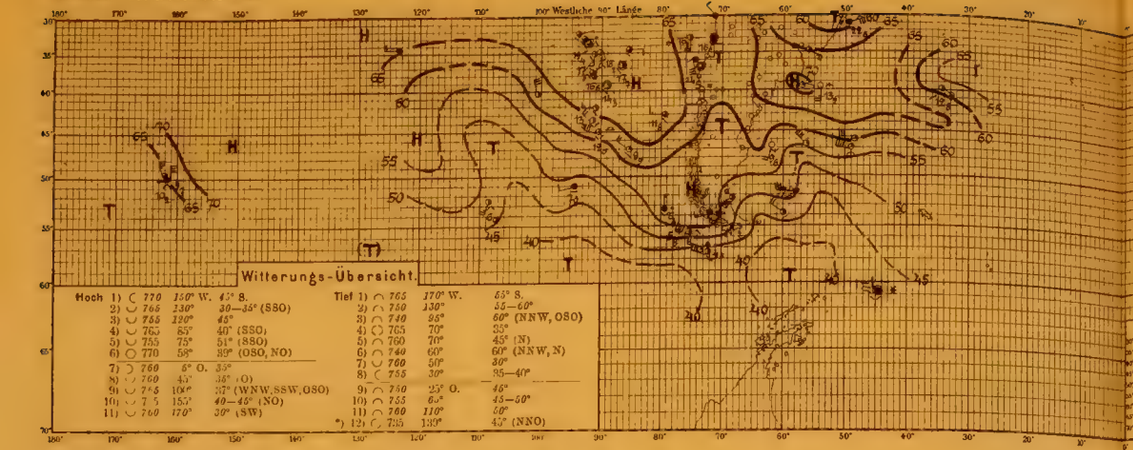


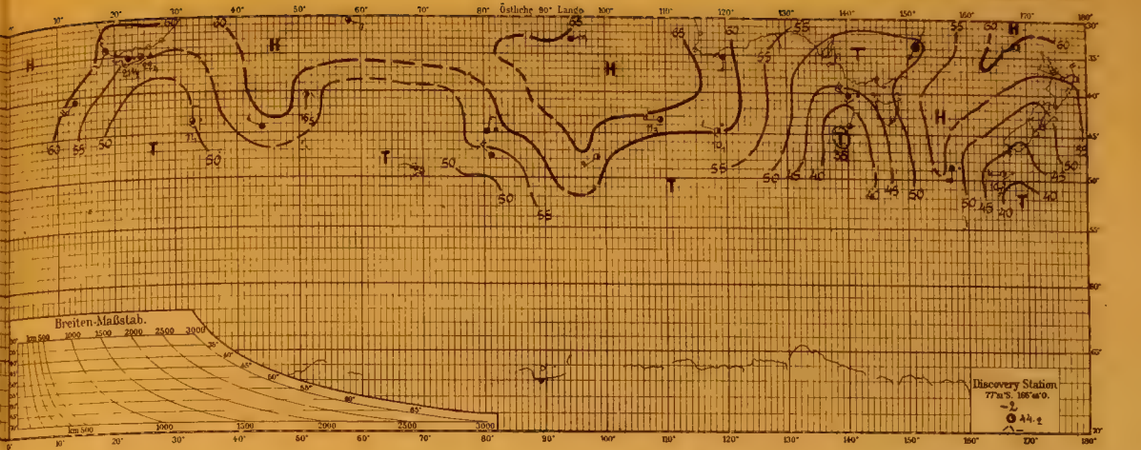
*) 10. Dezember: Tief 13) ○ 755 95—100° 50—55°
14) ○ 740 125° 35° (WSW, S, ONO)
15) ○ 740 170° 50

Tafel 285. *Nr. 853—855.*

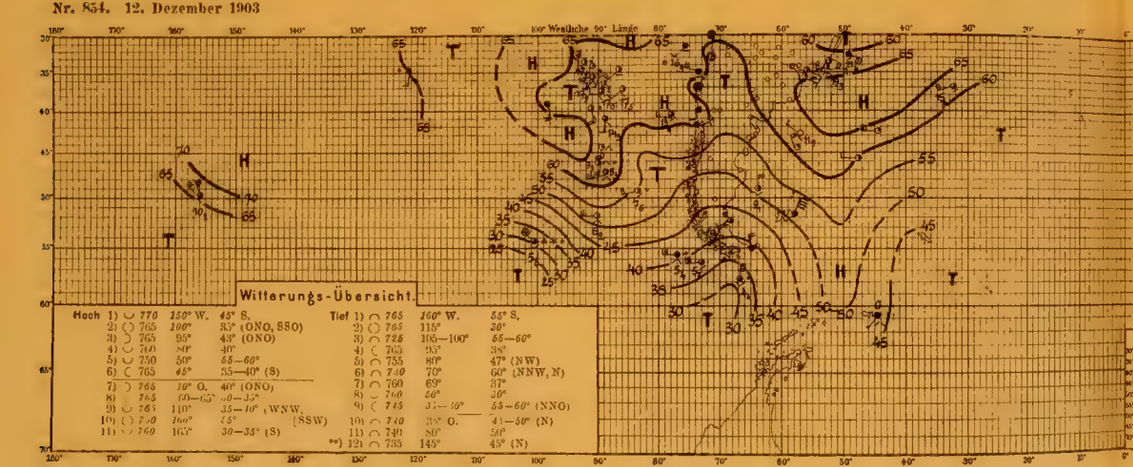
11.—13. Dezember 1903.

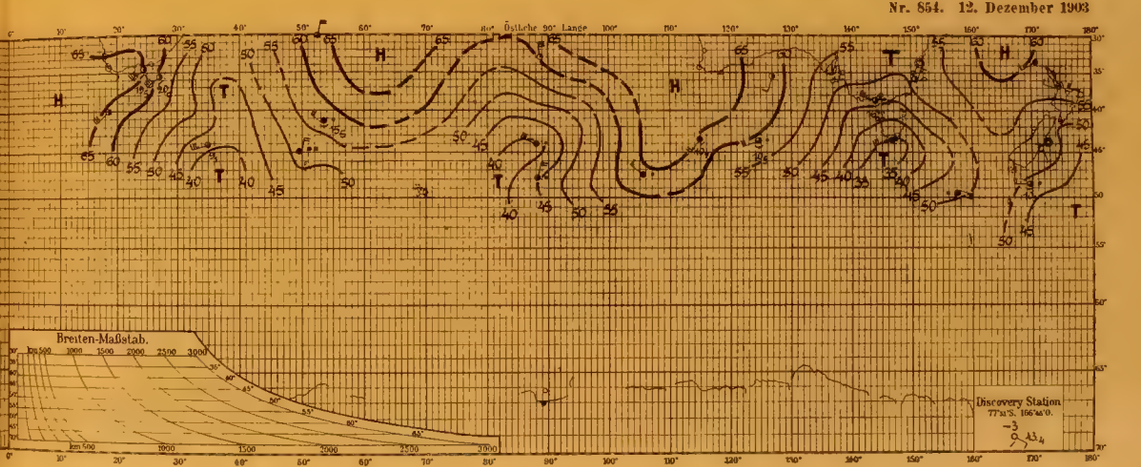
Nr. 853. 11. Dezember 1903



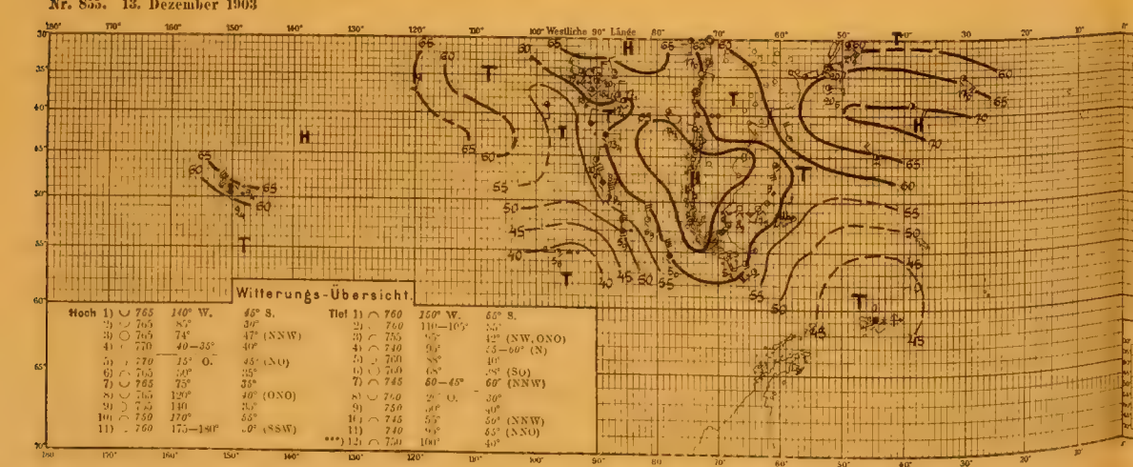


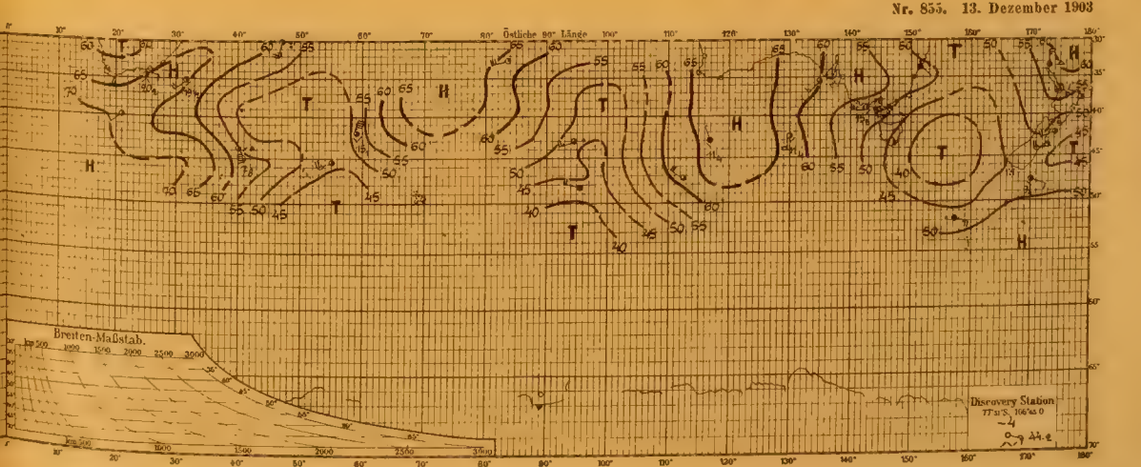
Nr. 854. 12. Dezember 1903





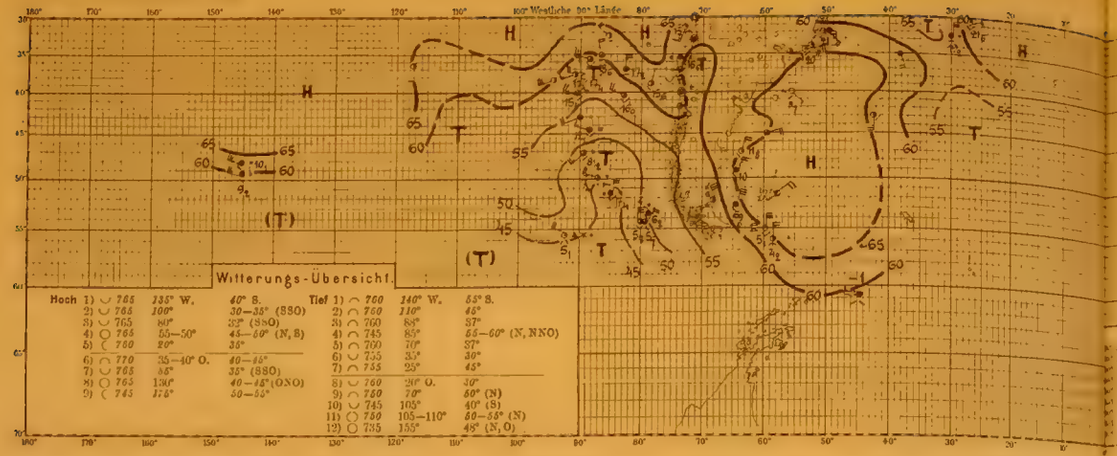
Nr. 855. 13. Dezember 1903



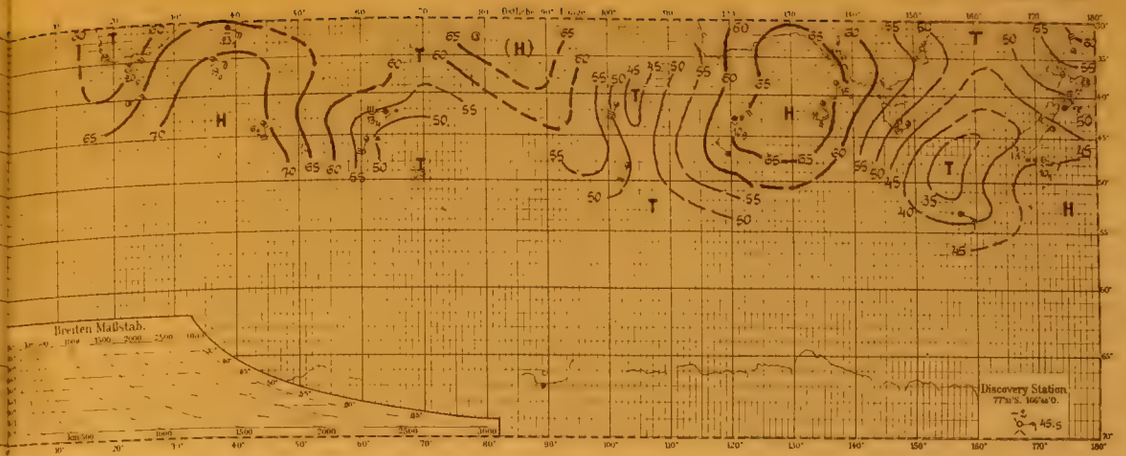


*) 11. Dezember: Tief 13) ∩ 740 170° 50—55°
**) 12. Dezember: Tief 13) ○ 755 147° 33°
14) (745 175—180° 60°
***) 13. Dezember: Tief 13) ○ 740 155° 45° (N, O)
14) ○ 750 155—160° 30°
15) (745 175—180° 45° (W)

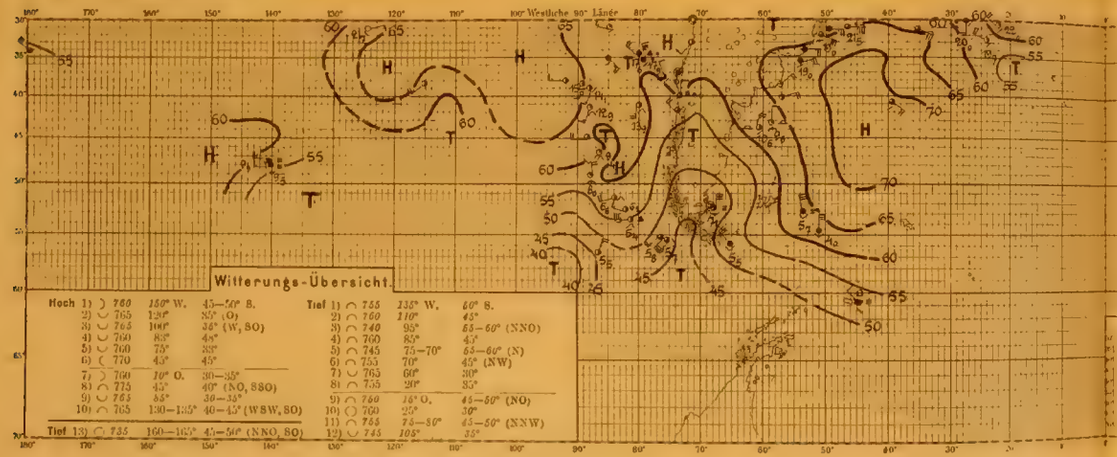
Nr. 856. 14. Dezember 1903



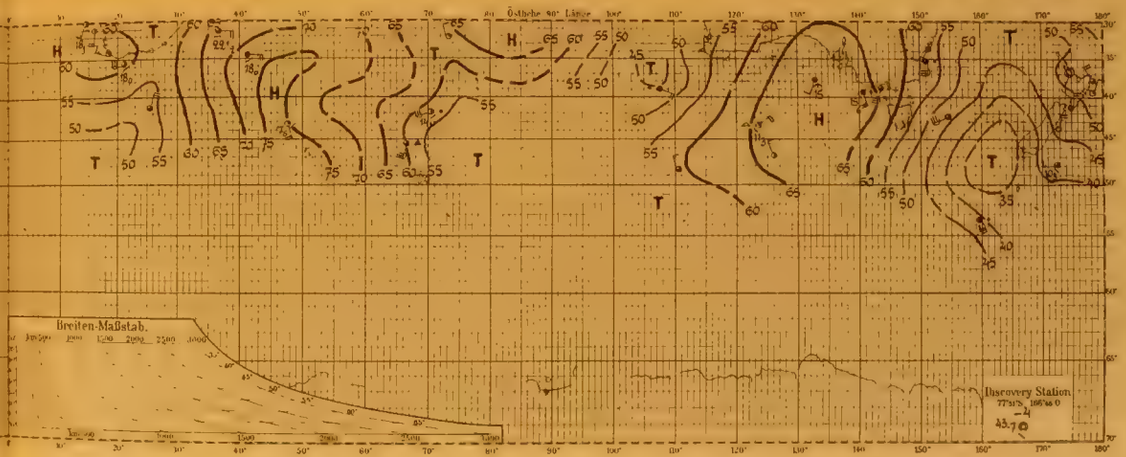
Nr. 856. 14. Dezember 1903



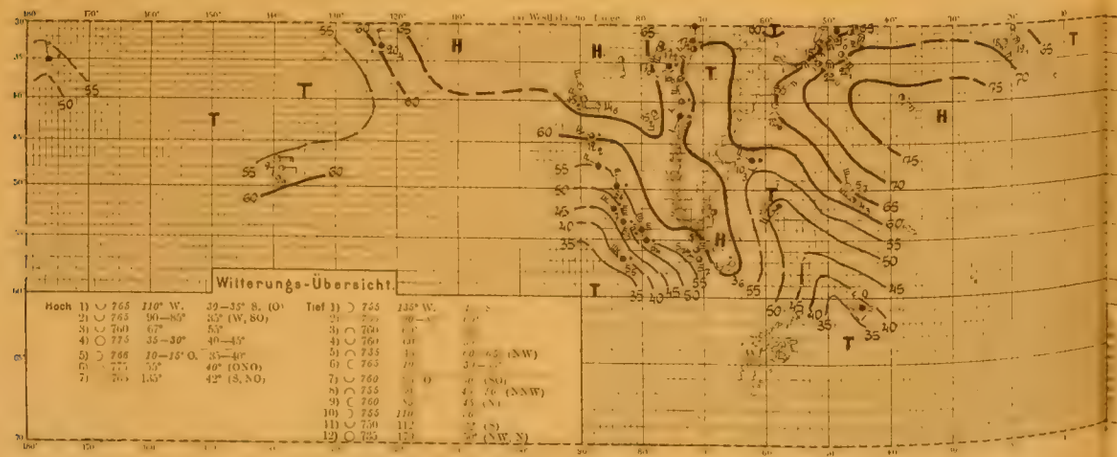
Nr. 857. 15. Dezember 1903



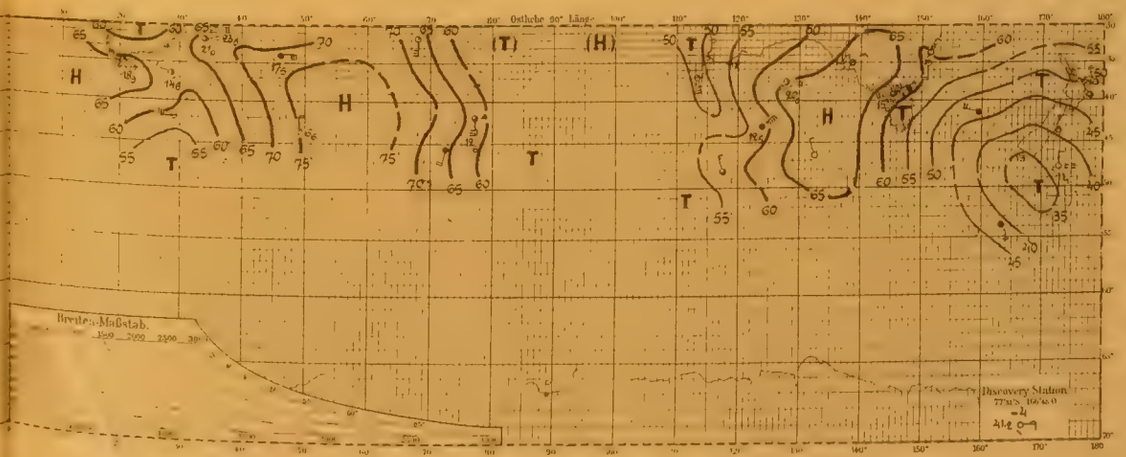
Nr. 857. 15. Dezember 1903



Nr. 858. 16. Dezember 1903



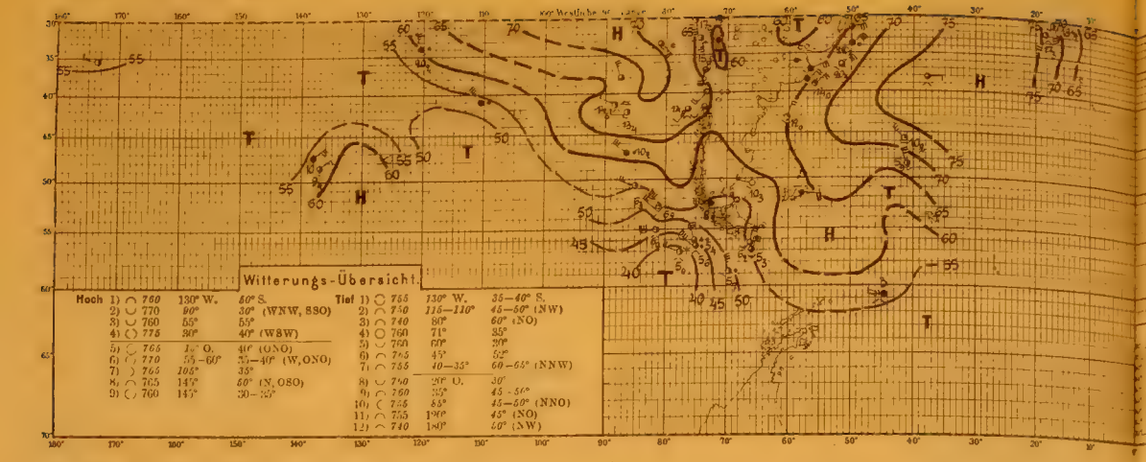
Nr. 858. 16. Dezember 1903



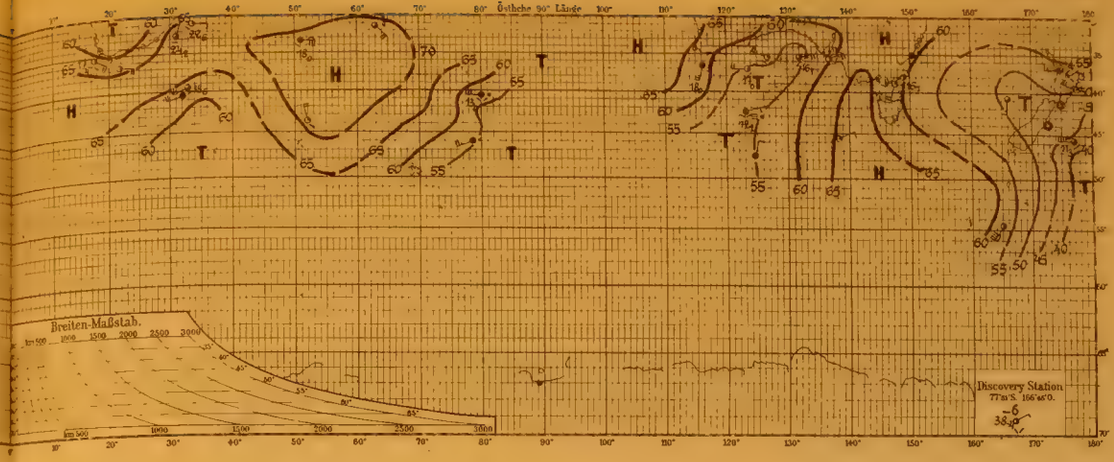
Tafel 287. Nr. 859—861.

17.—19. Dezember 1903.

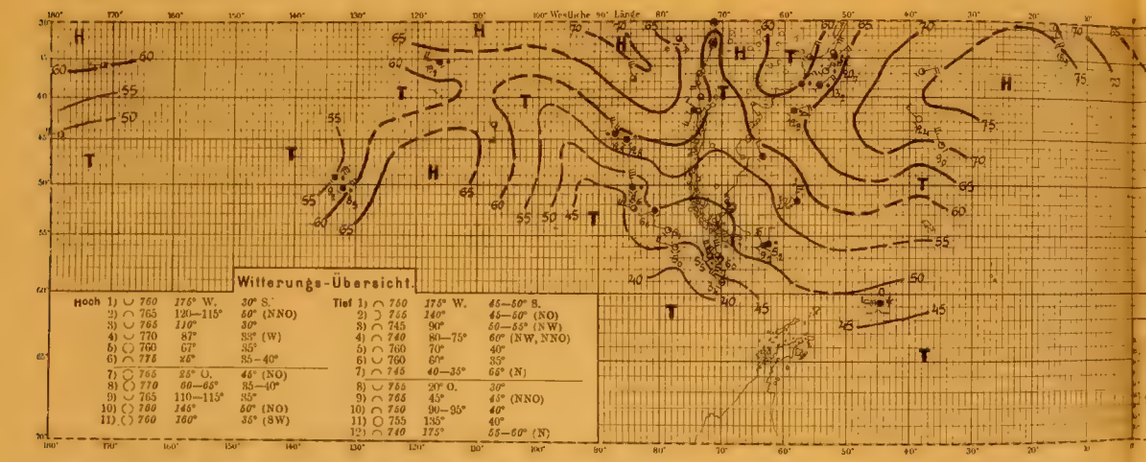
Nr. 859. 17. Dezember 1903



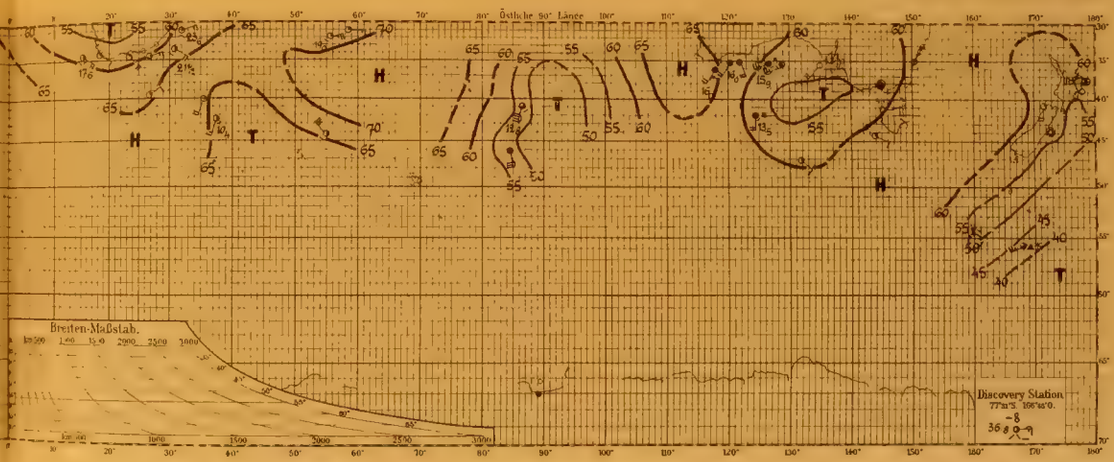
Nr. 859. 17. Dezember 1903



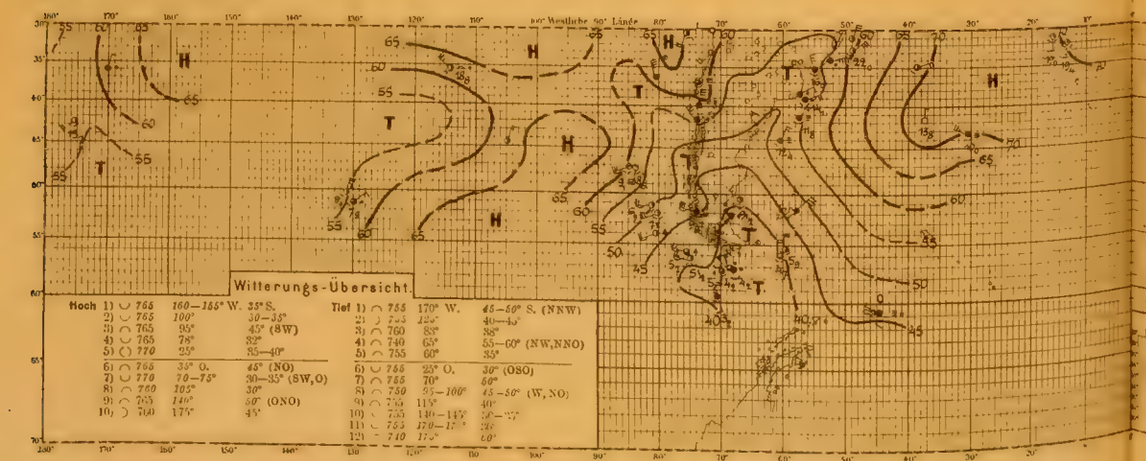
Nr. 860. 18. Dezember 1903



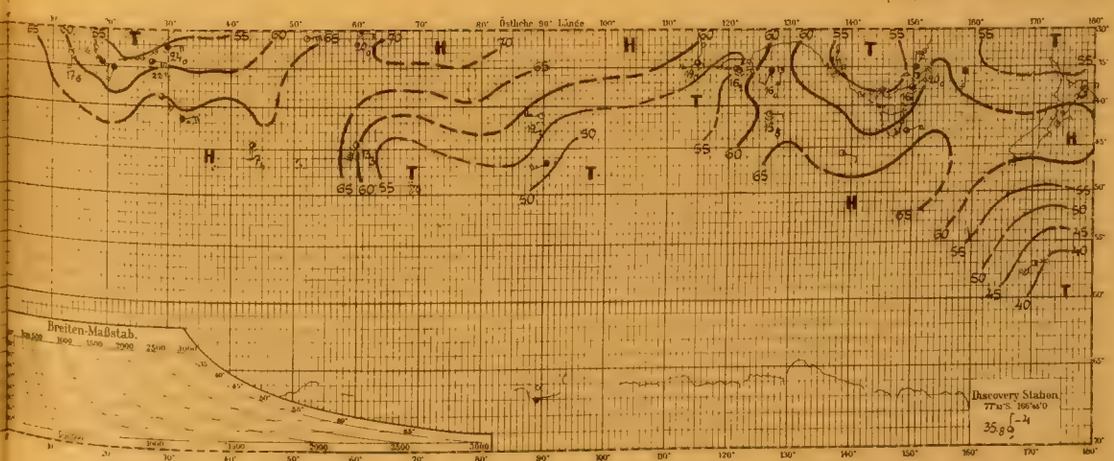
Nr. 860. 18. Dezember 1903



Nr. 861. 19. Dezember 1903



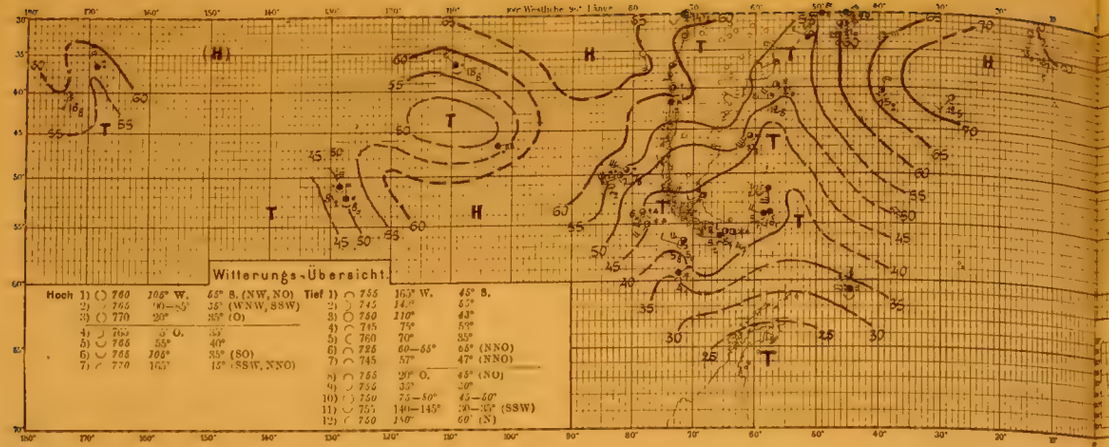
Nr. 861. 19. Dezember 1903

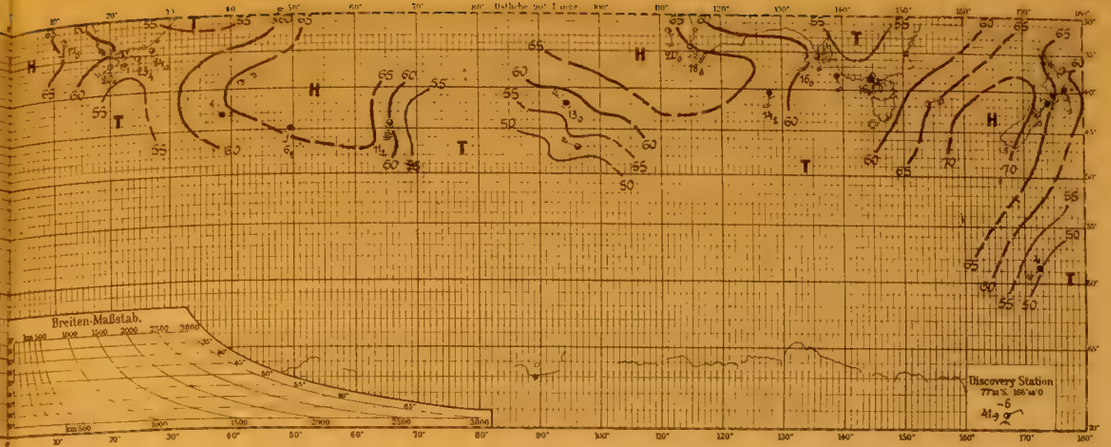


Tafel 288. Nr. 862—864.

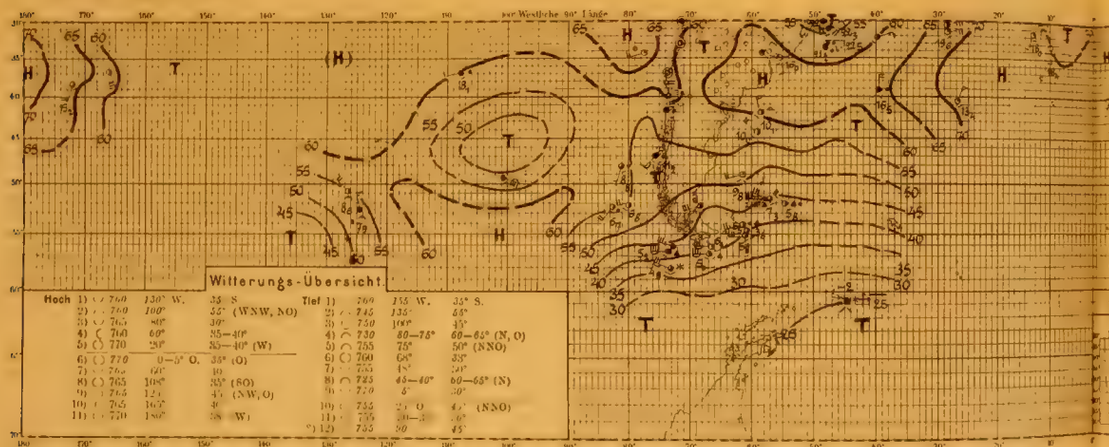
20.—22. Dezember 1903.

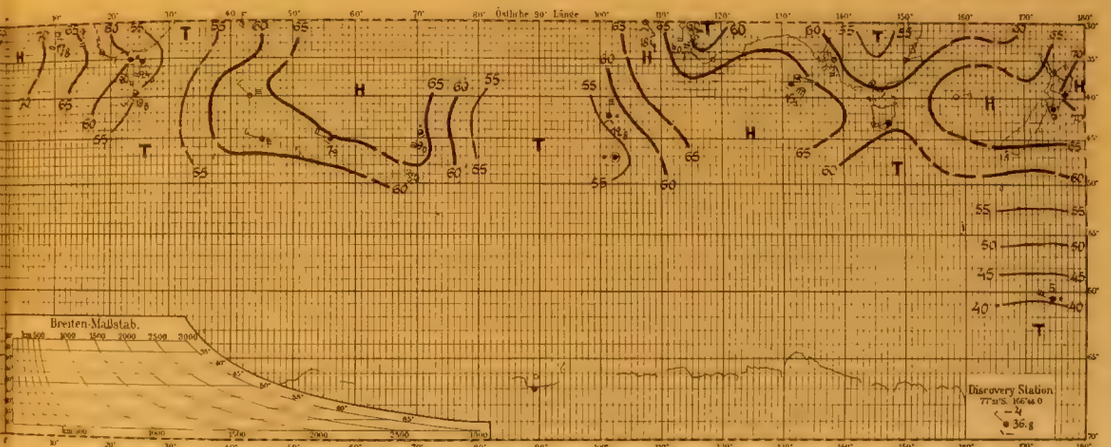
Nr. 862. 20. Dezember 1903



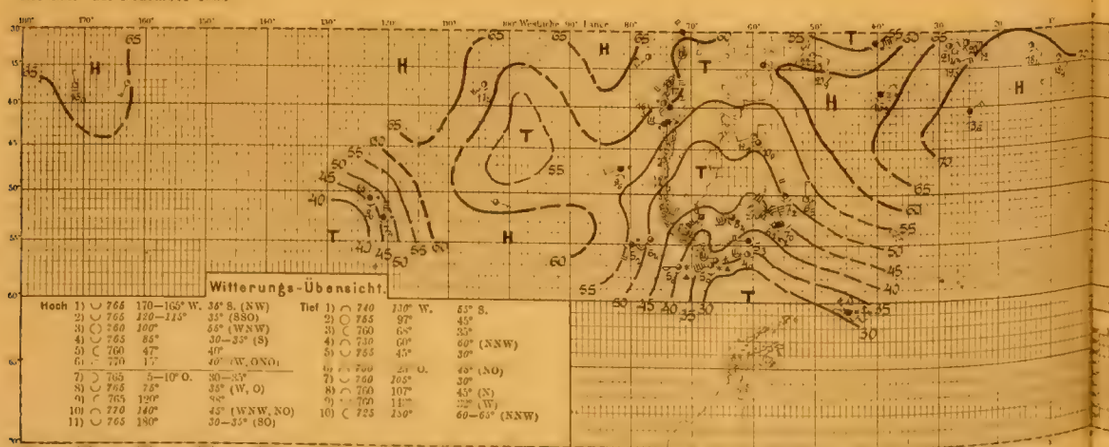


Nr. 863. 21. Dezember 1903





Nr. 864. 22. Dezember 1903

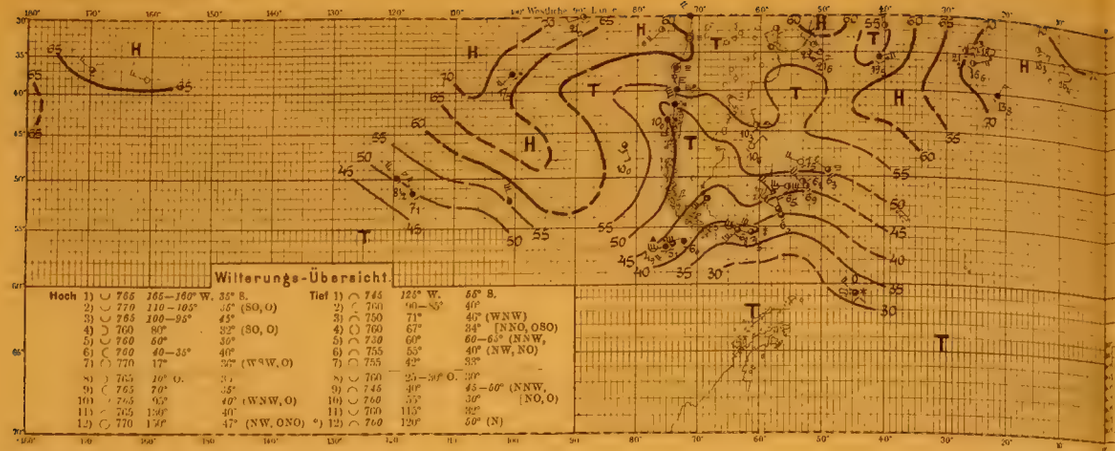


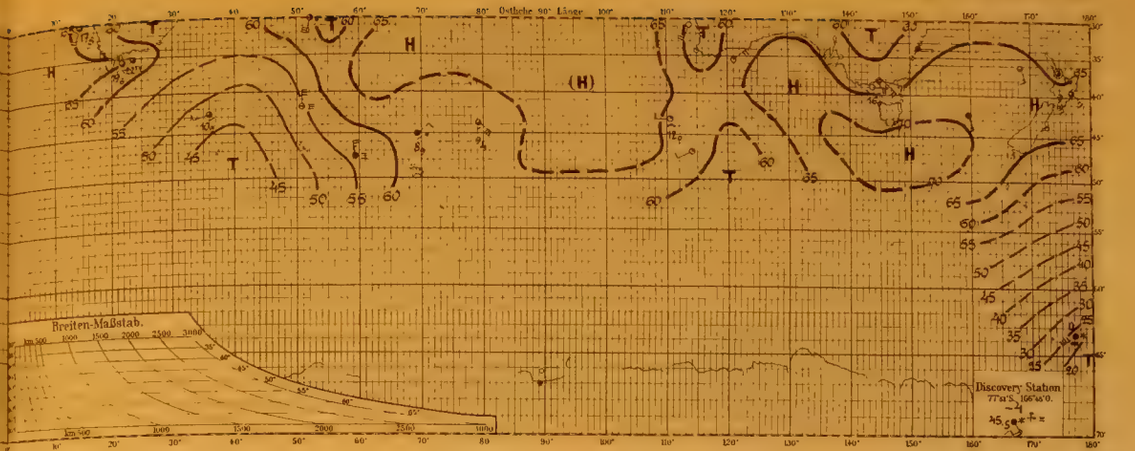
*) 21. Dezember: Tief 13) 760 118° 30°
14) 735 145° 30°
15) 760 150° 50°
16) 740 170—175° 65° (NW)

Tafel 289. *Nr. 865–867.*

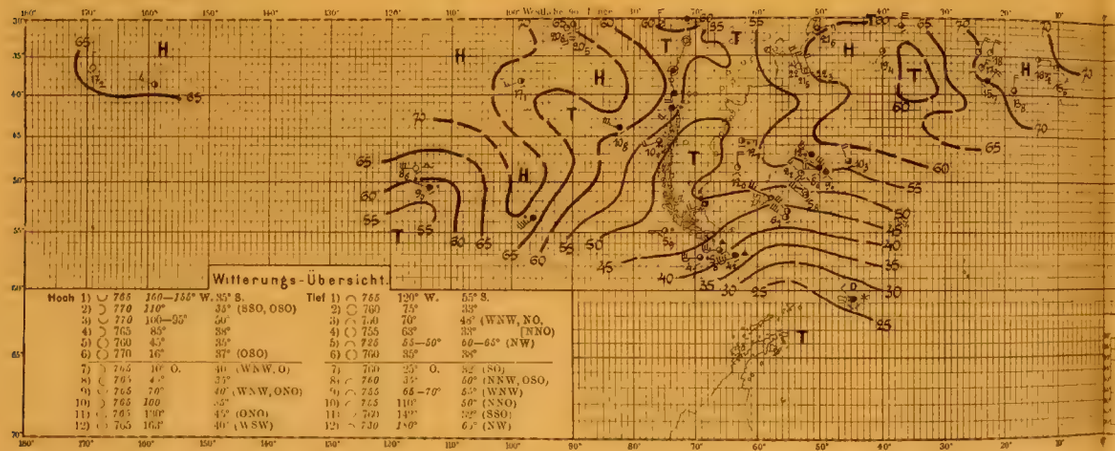
23.—25. Dezember 1903.

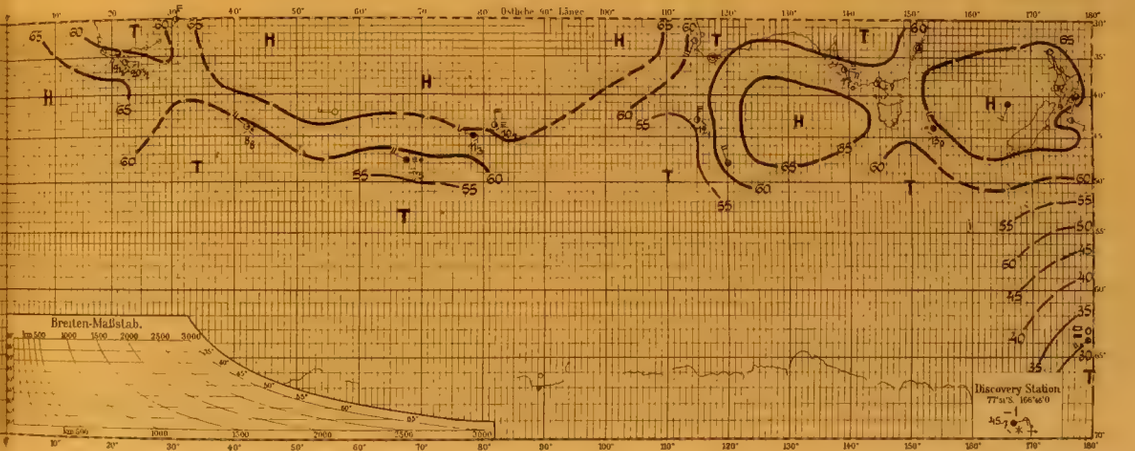
Nr. 865. 23. Dezember 1903



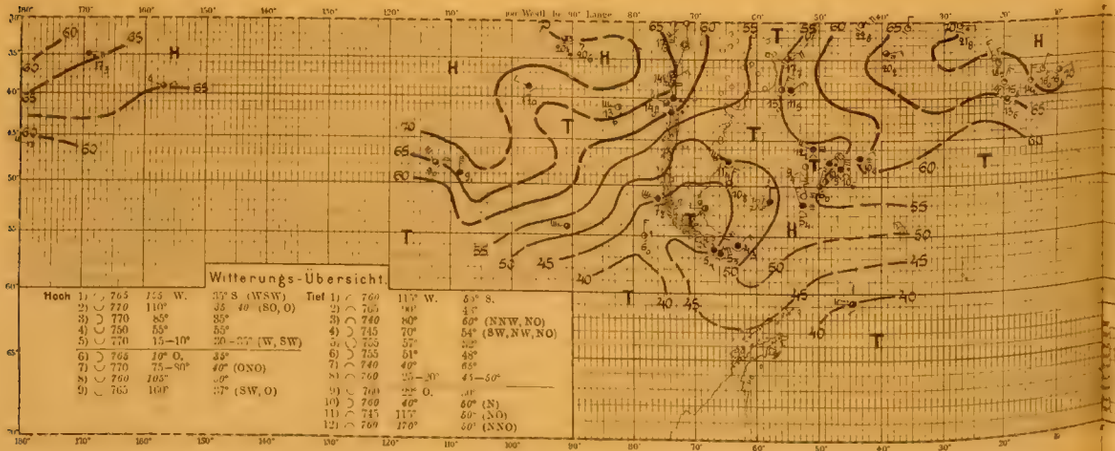


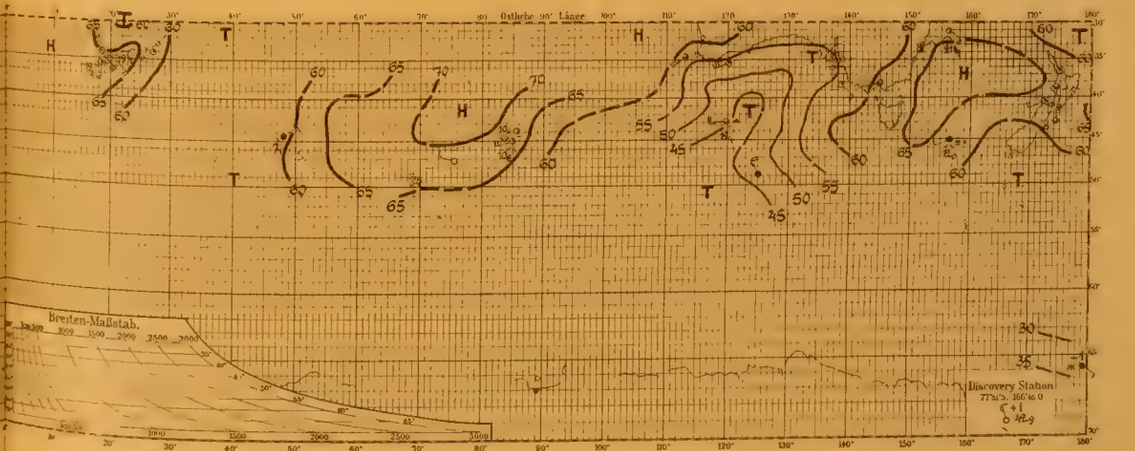
Nr. 866. 24. Dezember 1903





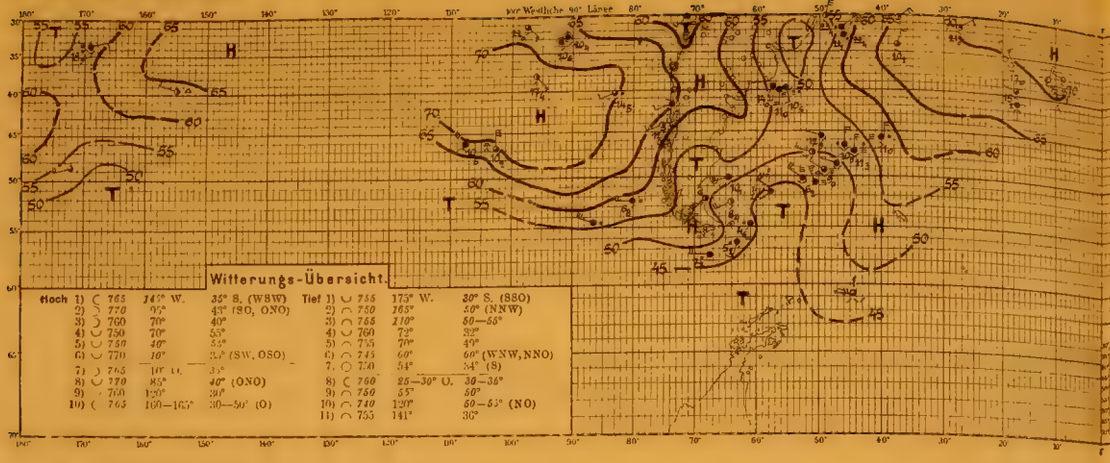
Nr. 867. 25. Dezember 1903

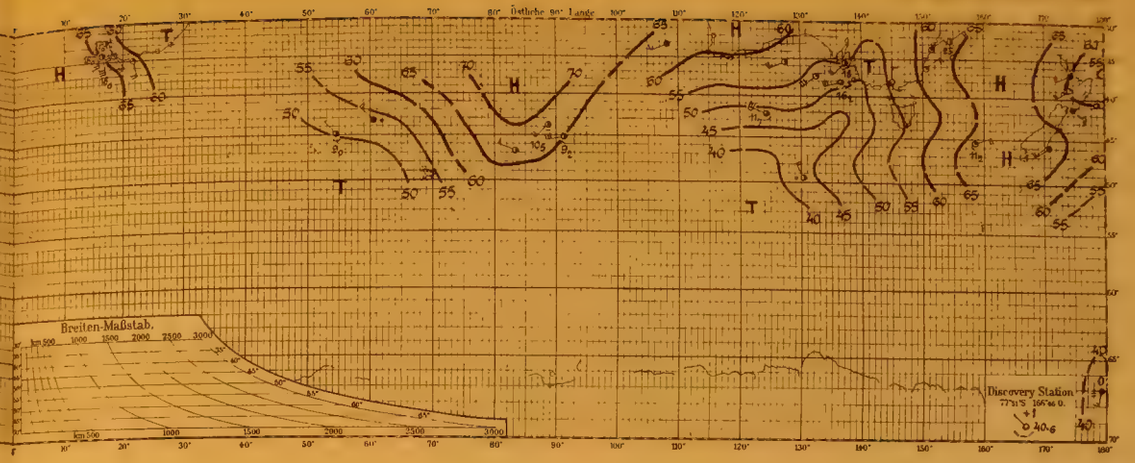




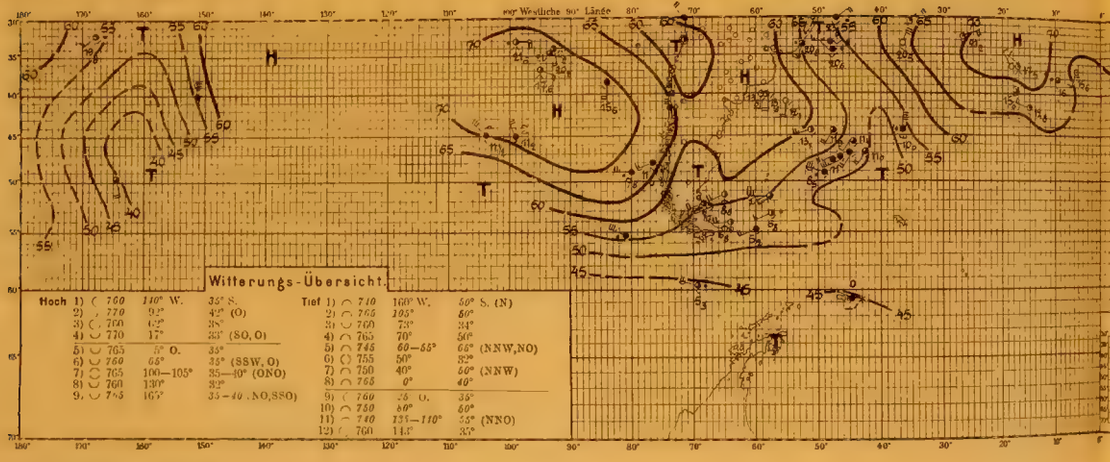
*) 23. Dezember: Tief 13) ∪ 760 144° 32°
14) ∩ 720 180° 65°

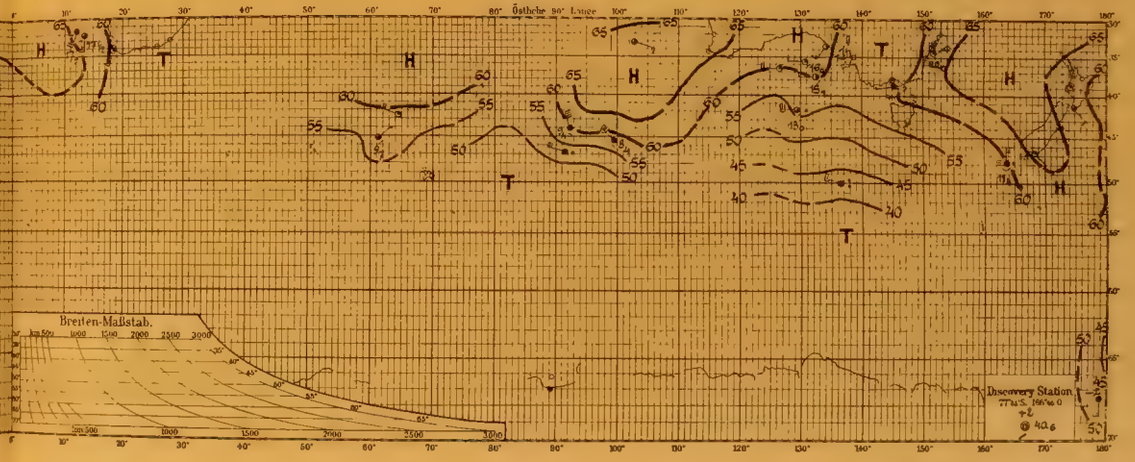
Nr. 868. 26. Dezember 1903



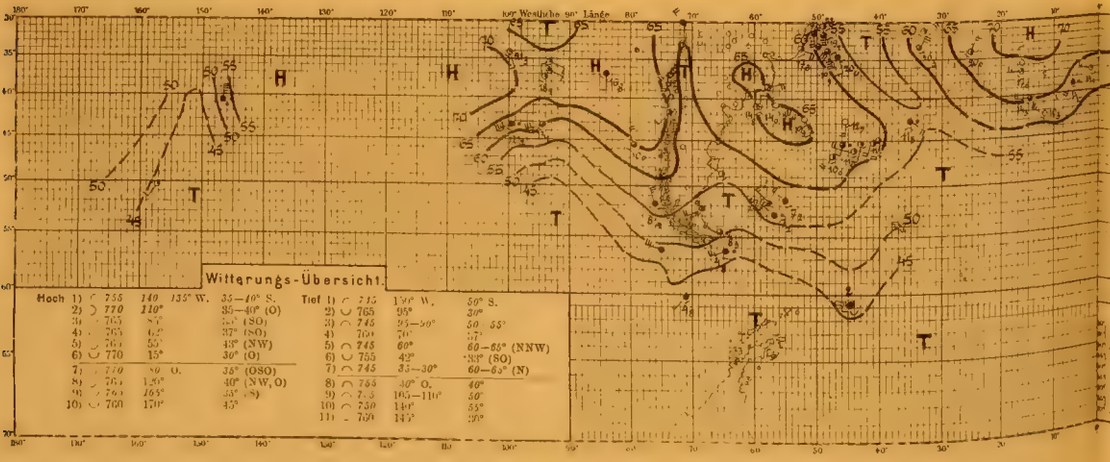


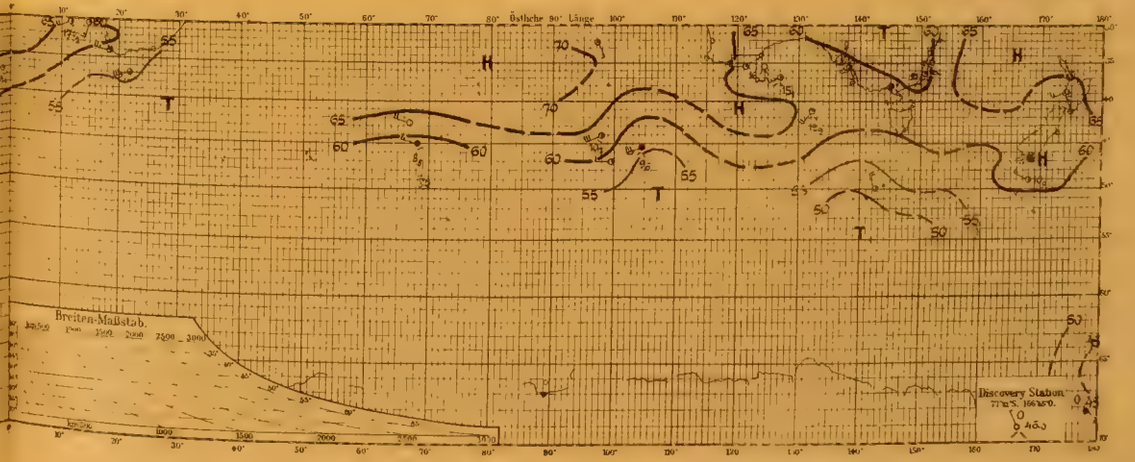
Nr. 869. 27. Dezember 1903





Nr. 870. 28. Dezember 1903

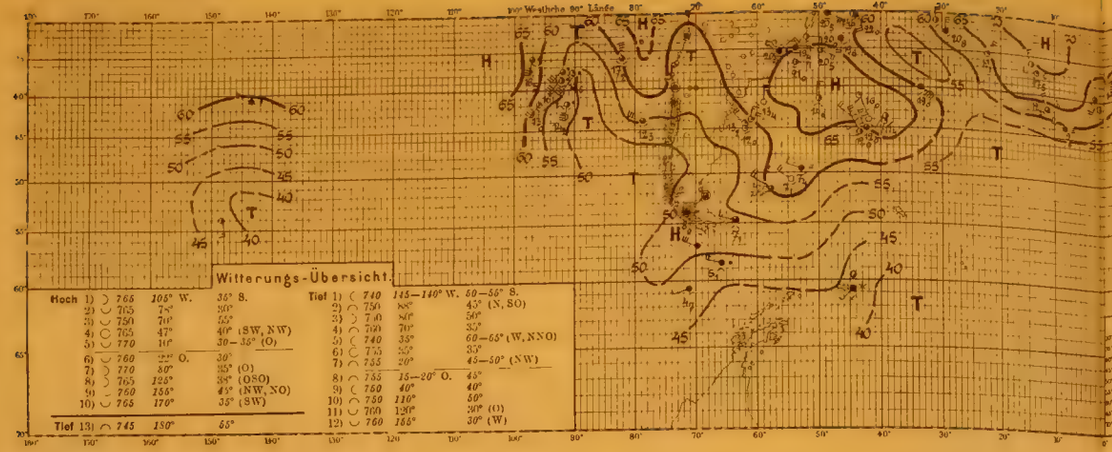




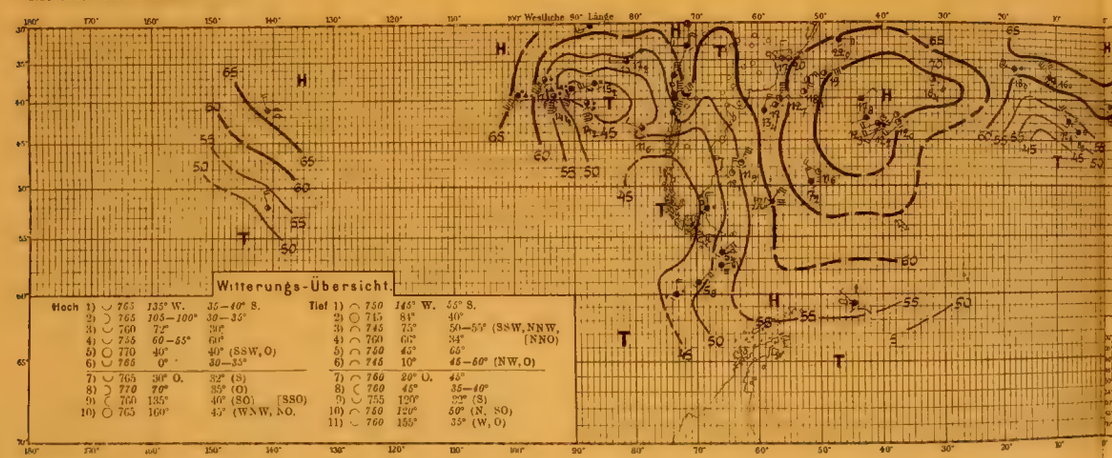
Tafel 291. *Nr. 871—873.*

29.—31. Dezember 1903.

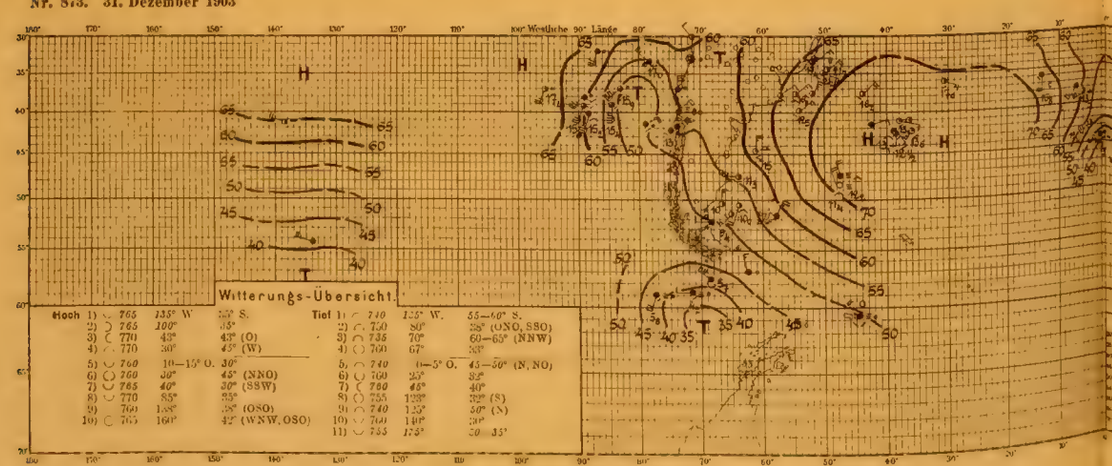
Nr. 871. 29. Dezember 1903



Nr. 872. 30. Dezember 1903



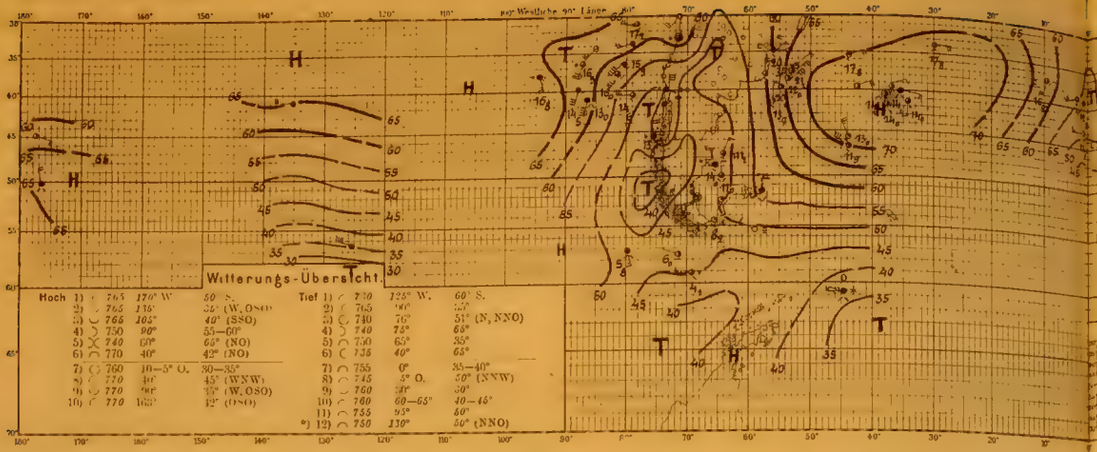
Nr. 873. 31. Dezember 1903

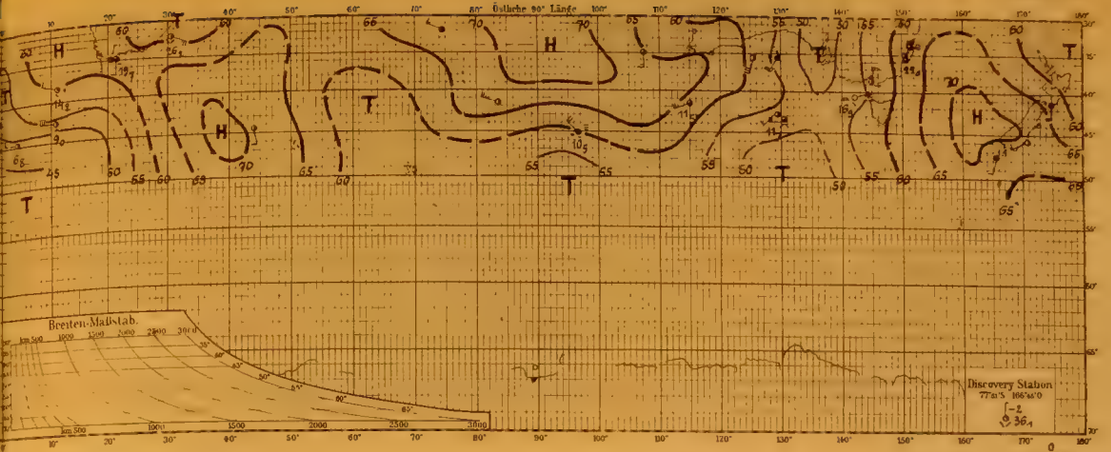


Tafel 292. Nr. 874—876.

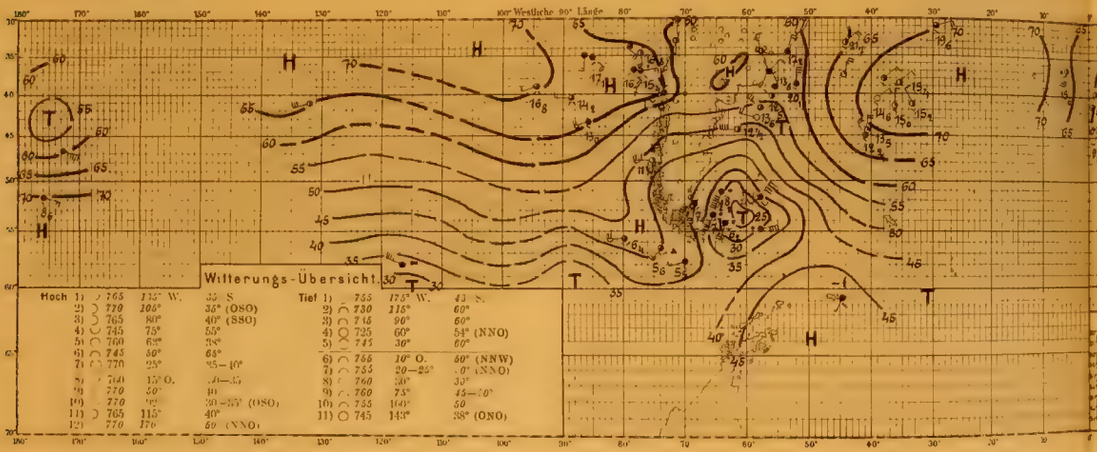
1.—3. Januar 1904.

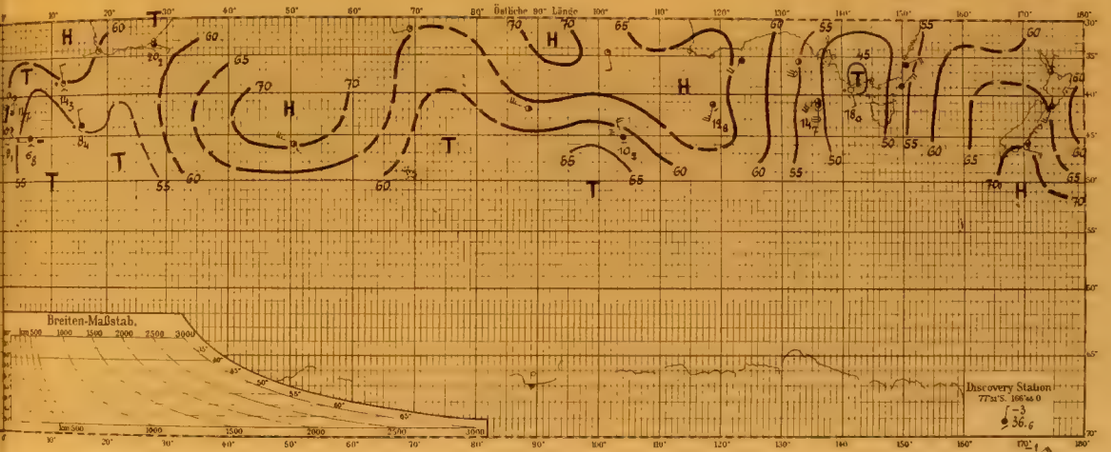
Nr. 874. 1. Januar 1904



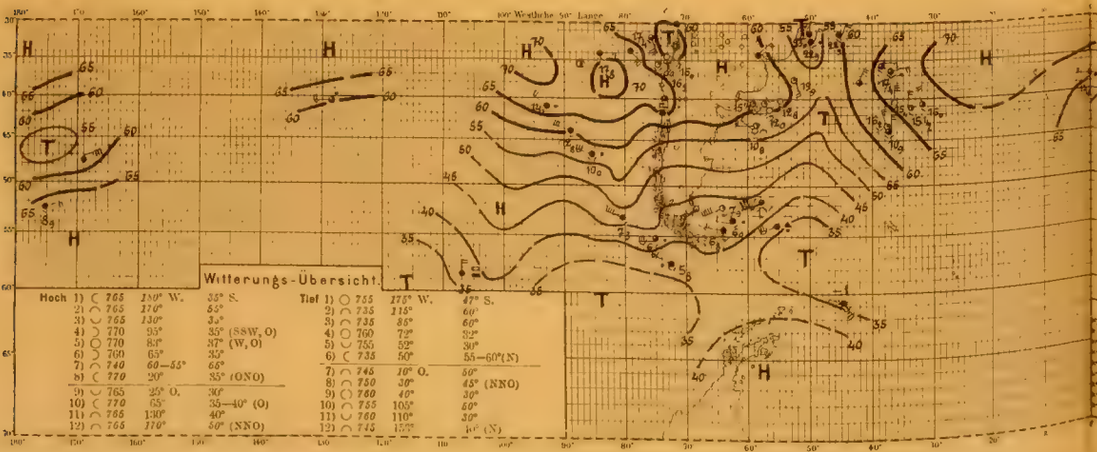


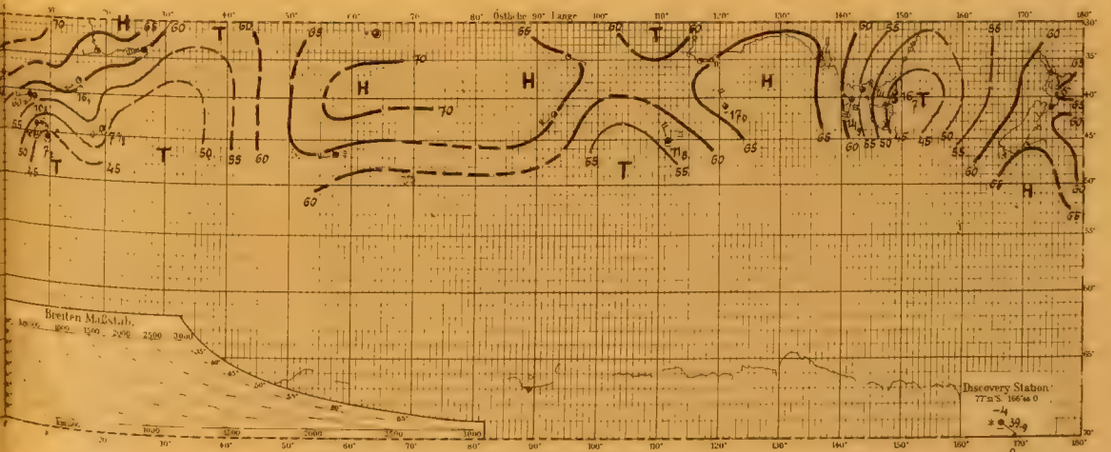
Nr. 875. 2. Januar 1904





Nr. 876. 3. Januar 1904



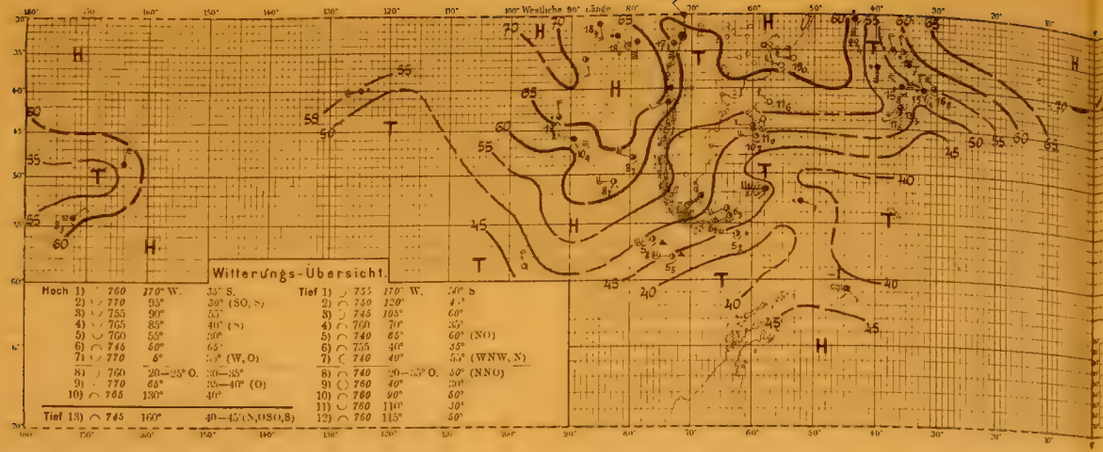


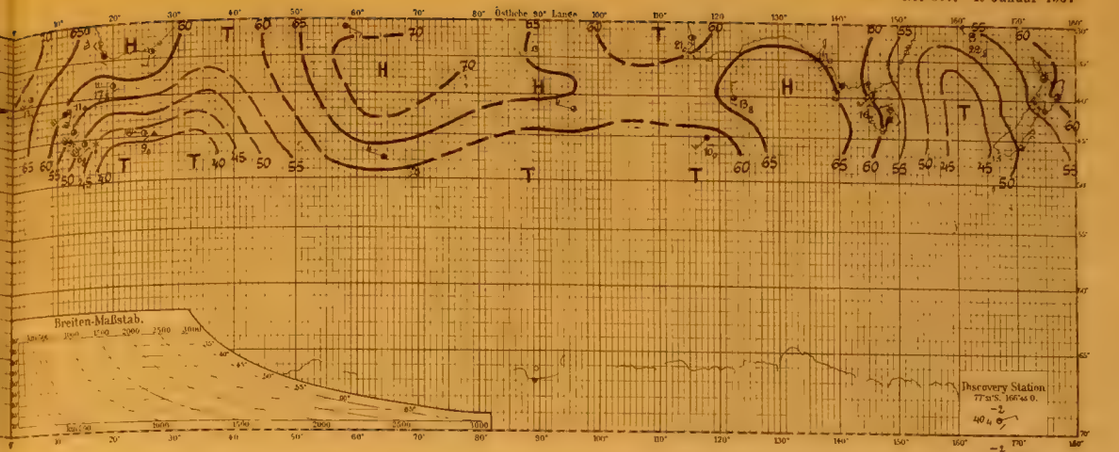
*) 1.Januar: Tief 13) 750 130° 85° (SSW)
14) 700 180° 85°

Tafel 293. Nr. 877—879.

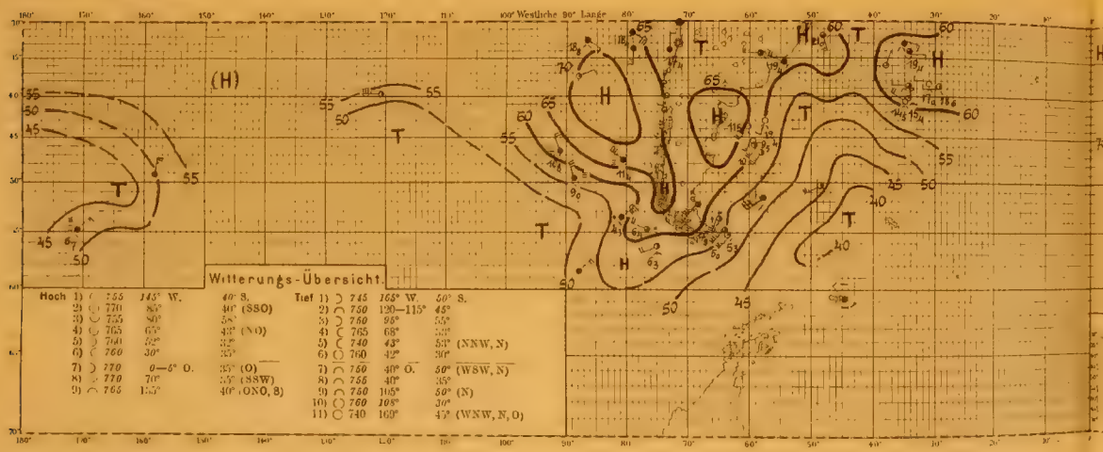
4.—6. Januar 1904.

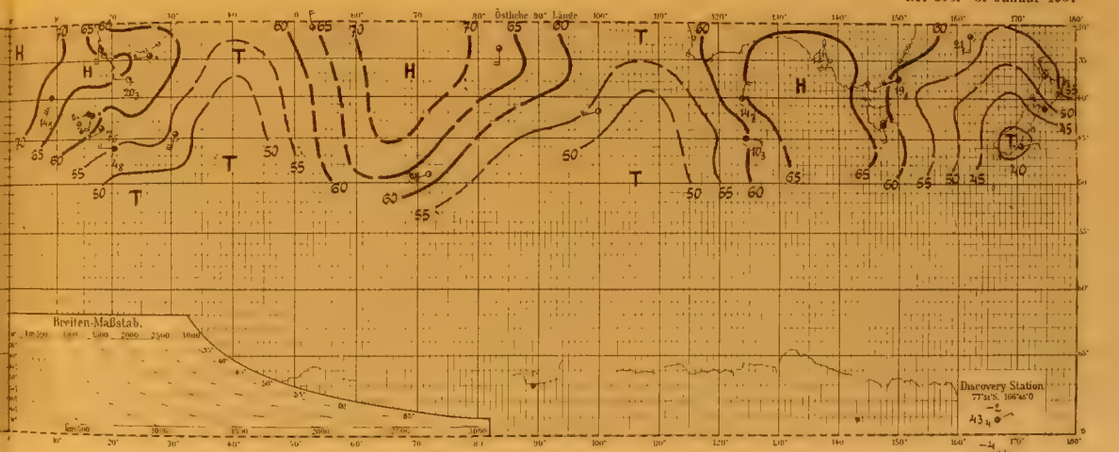
Nr. 877. 4. Januar 1904



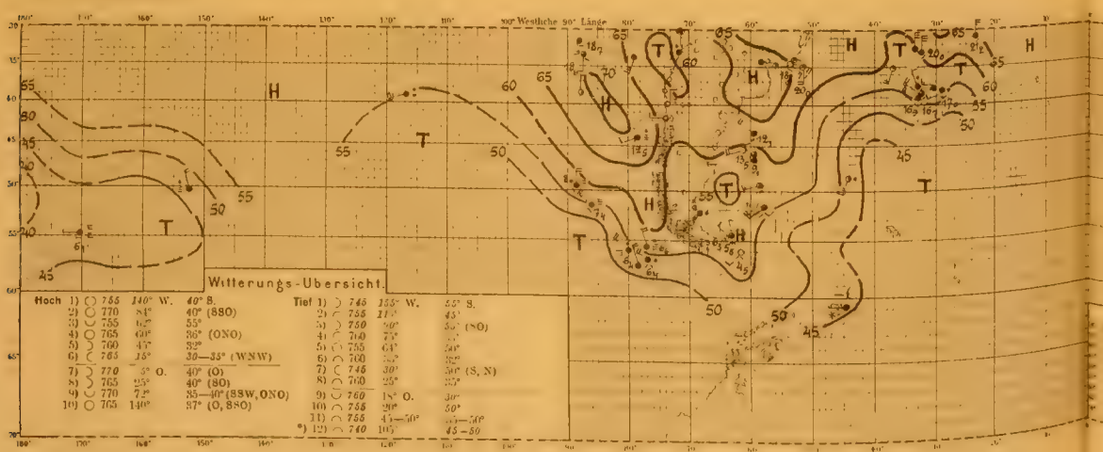


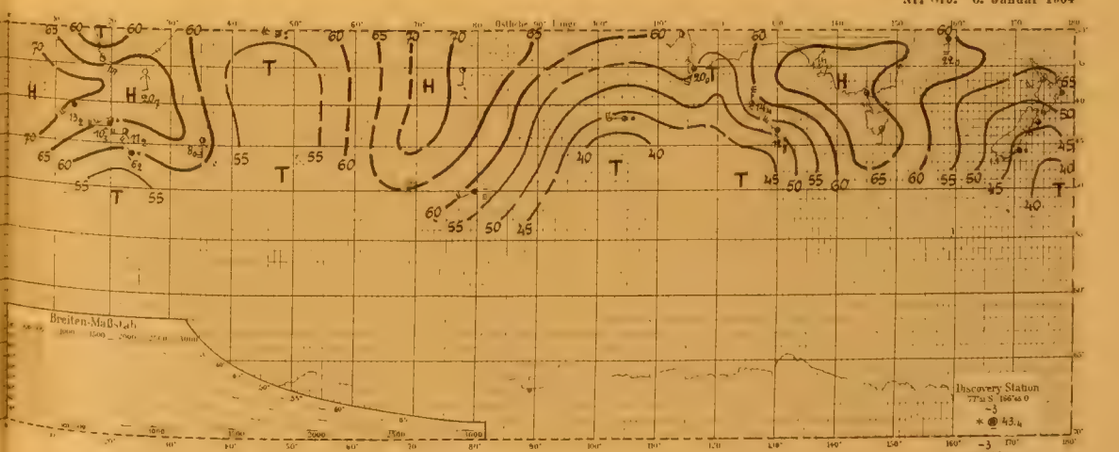
Nr. 878. 5. Januar 1904





Nr. 879. 6. Januar 1904





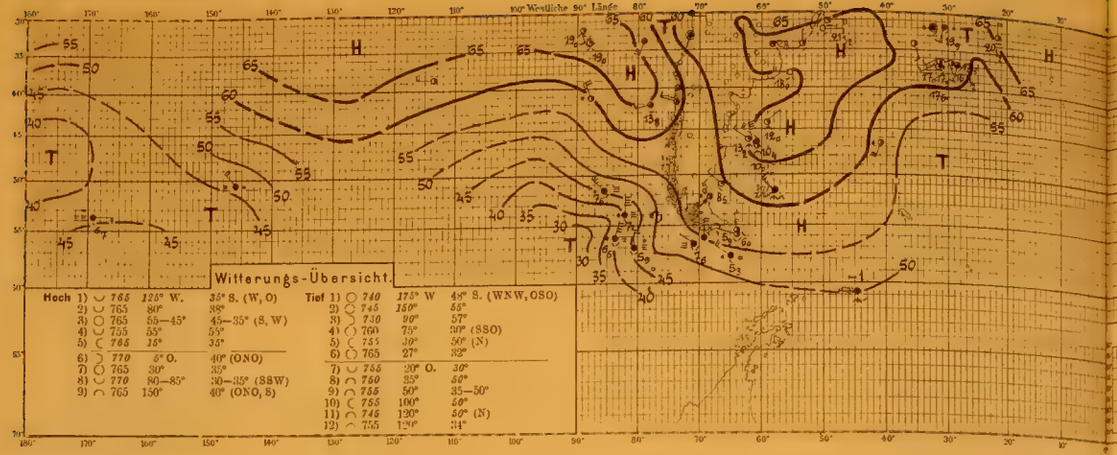
*) 6. Januar: Tief 13) 755 120° 55°
14) 745 125° 60° (N)
15) 740 175—180° 30° (O)

Tafel 294. Nr. 880—882.

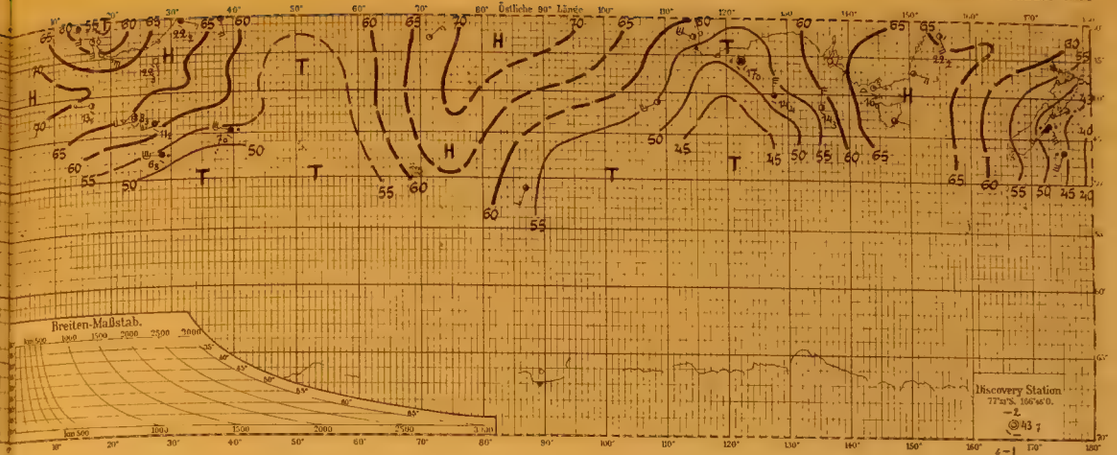
7.—9. Januar 1904.

LIBRARY

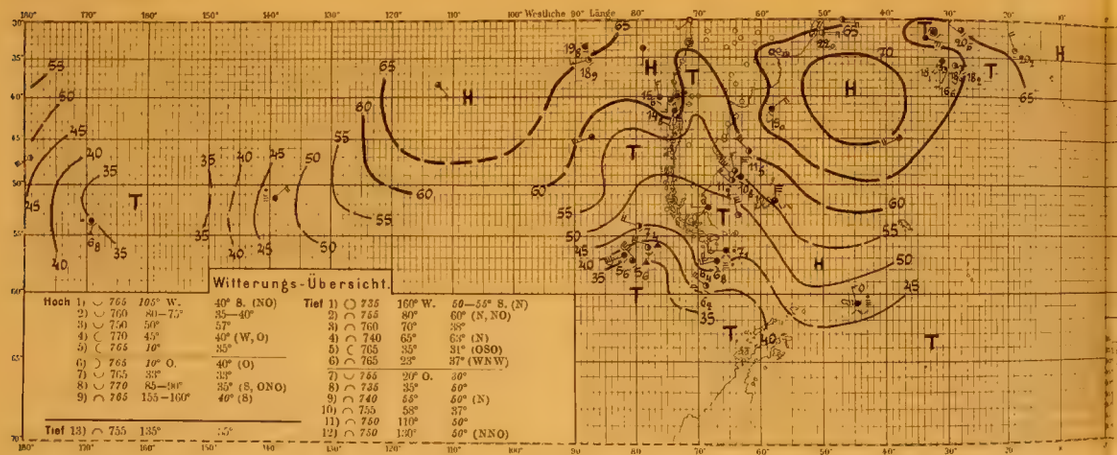
Nr. 880. 7. Januar 1904



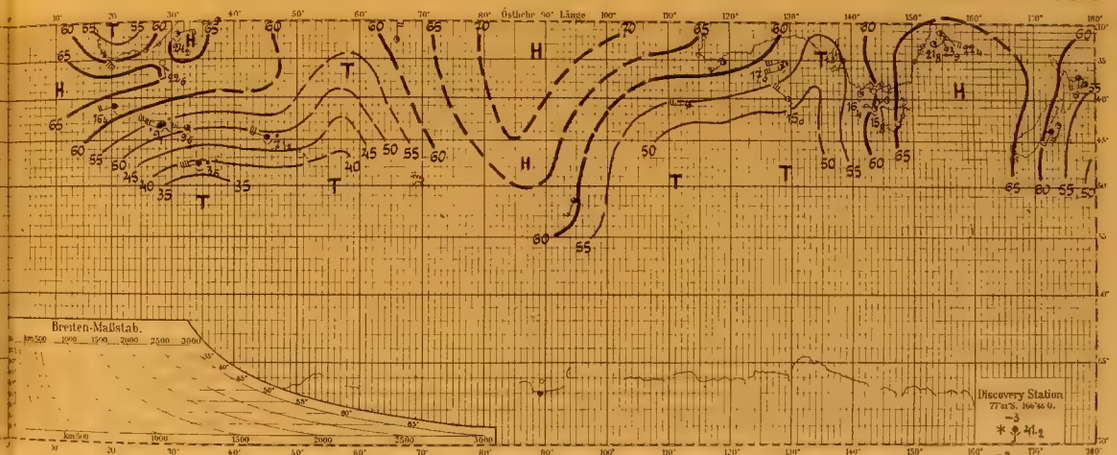
Nr. 880. 7. Januar 1904



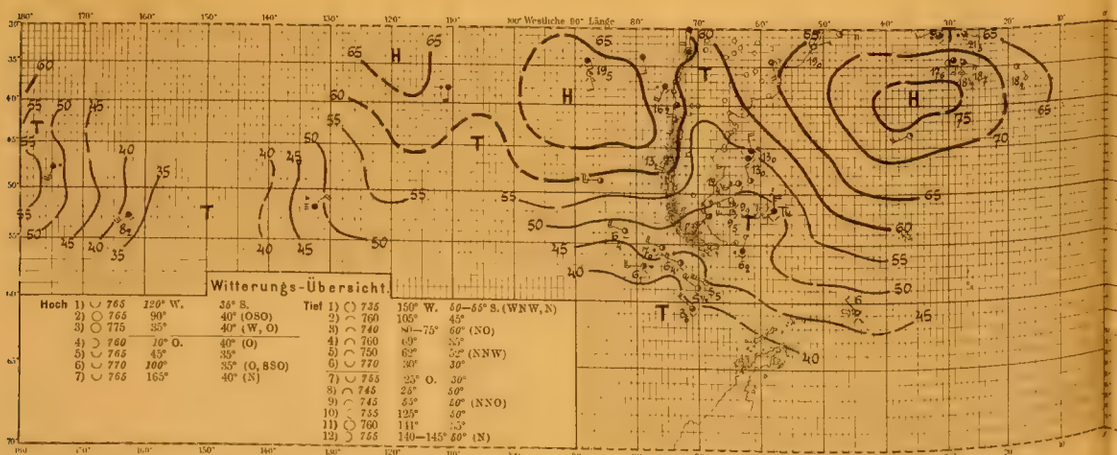
Nr. 881. 8. Januar 1904



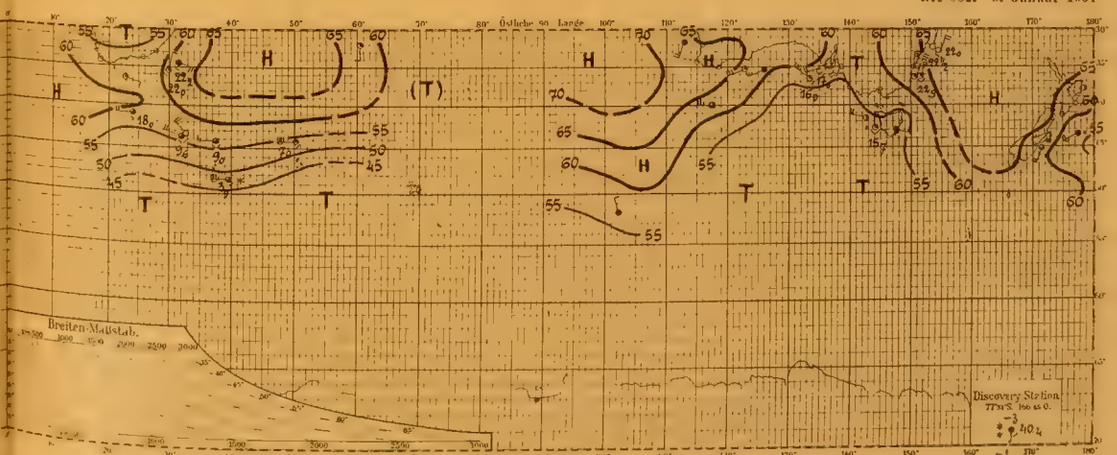
Nr. 881. 8. Januar 1904



Nr. 882. 9. Januar 1904



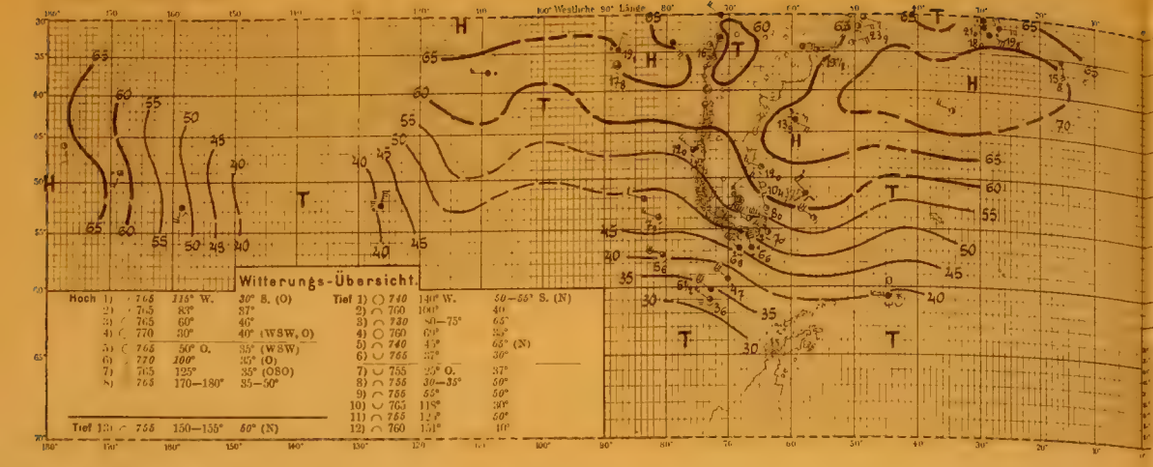
Nr. 882. 9. Januar 1904

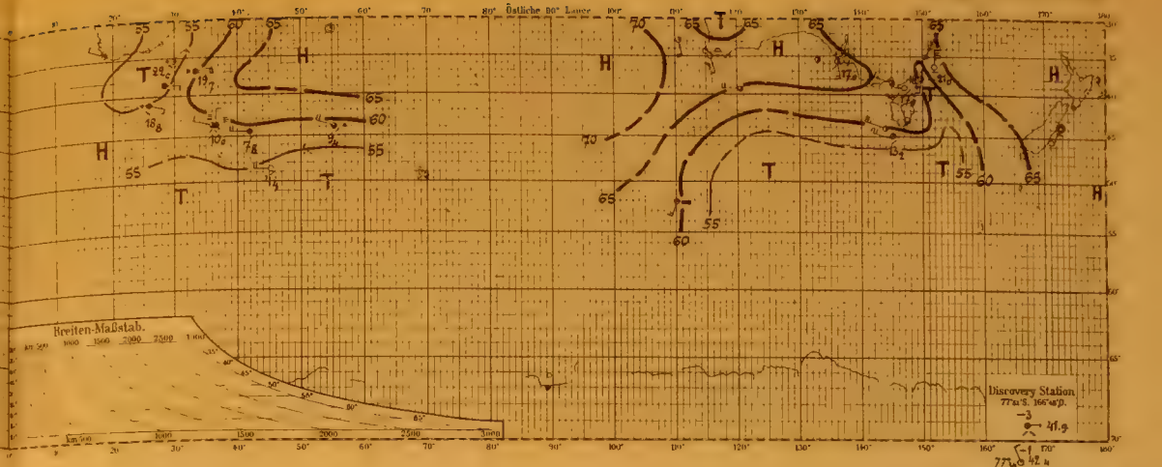


Tafel 295. Nr. 883—885.

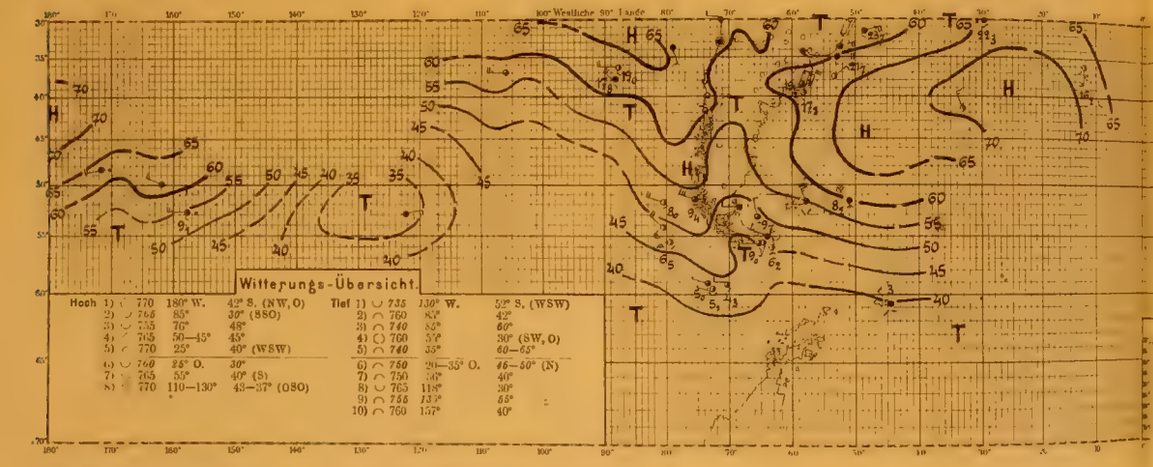
10.—12. Januar 1904.

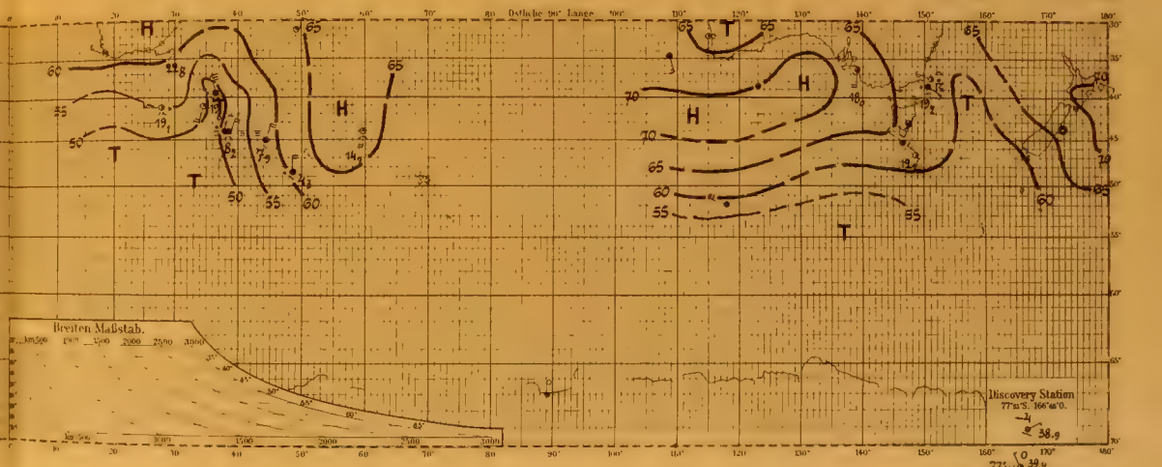
Nr. 883. 10. Januar 1904



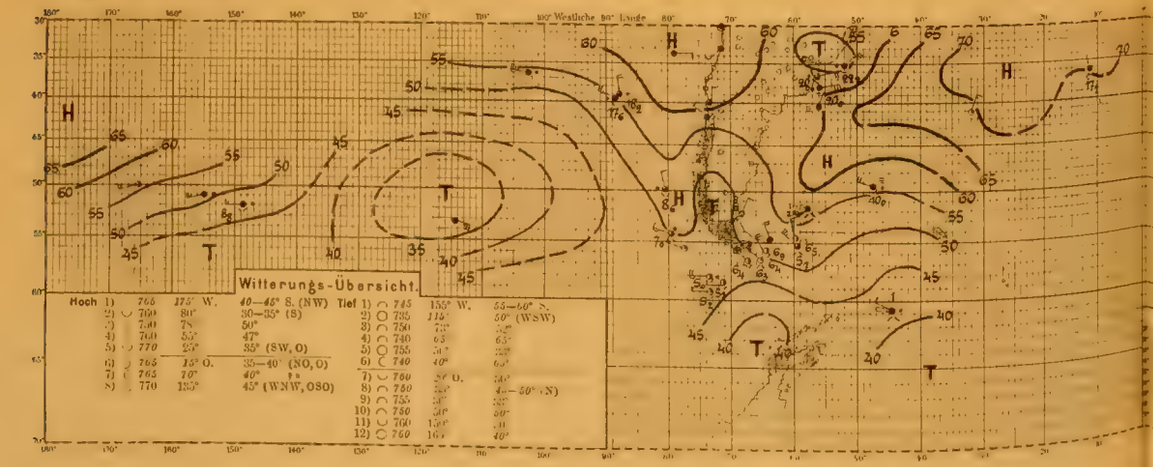


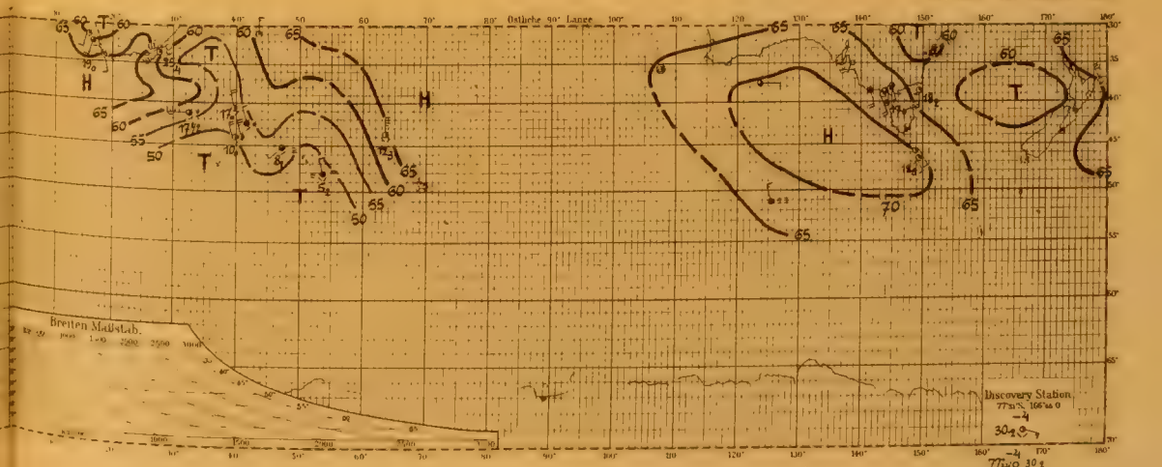
Nr. 884. 11. Januar 1904





Nr. 885. 12. Januar 1904

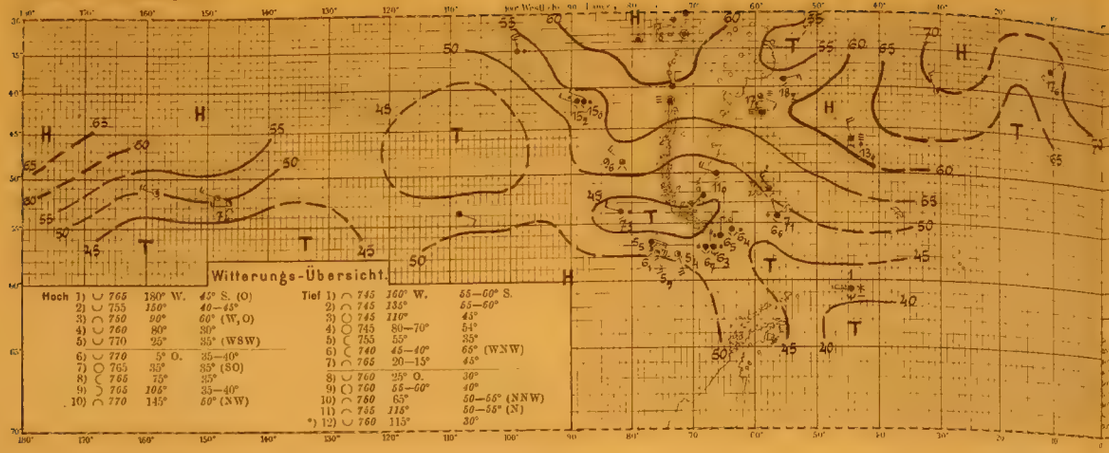


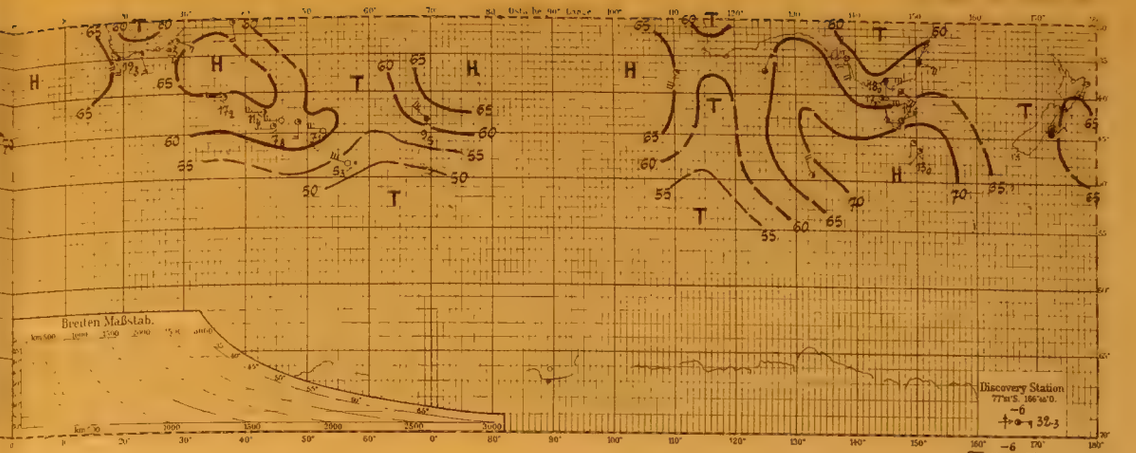


Tafel 296. *Nr. 886—888.*

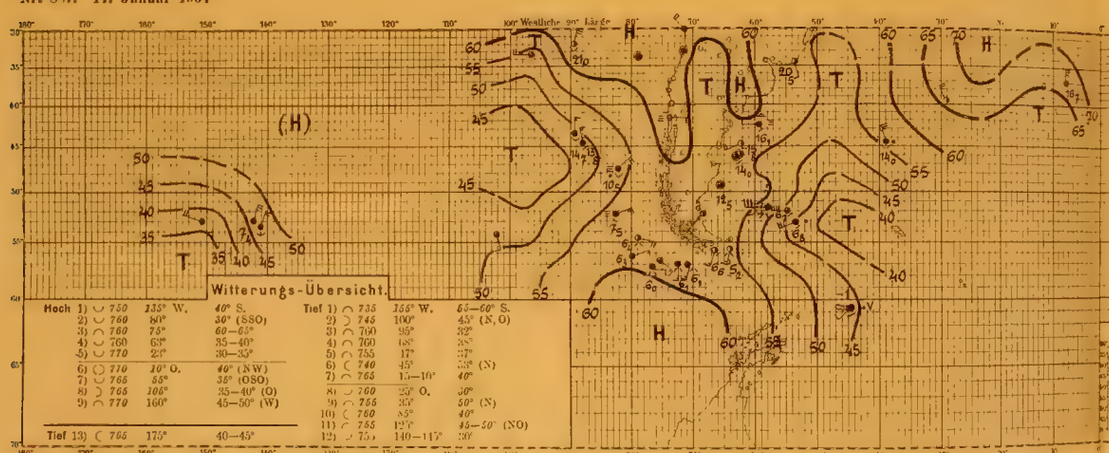
13.—15. Januar 1904.

Nr. 886. 13. Januar 1904

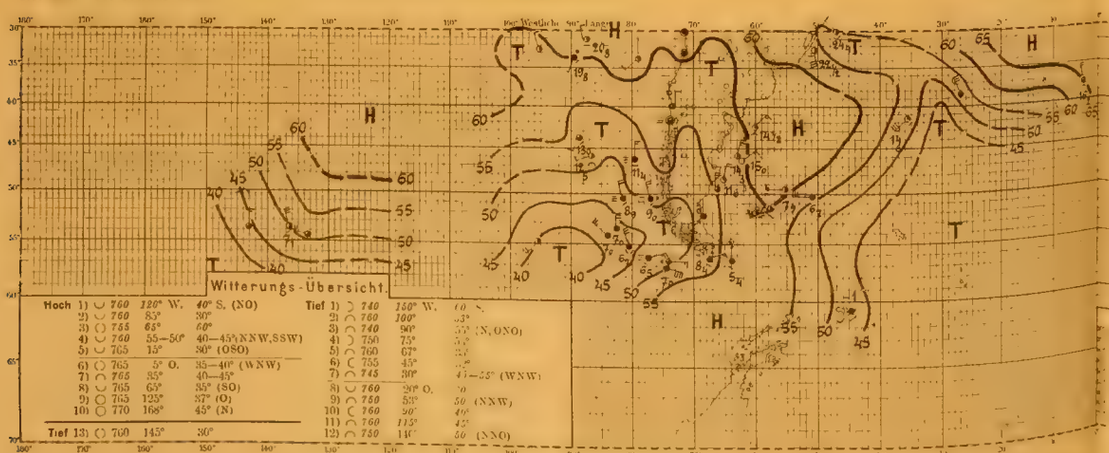




Nr. 887. 14. Januar 1904



Nr. 888. 15. Januar 1904

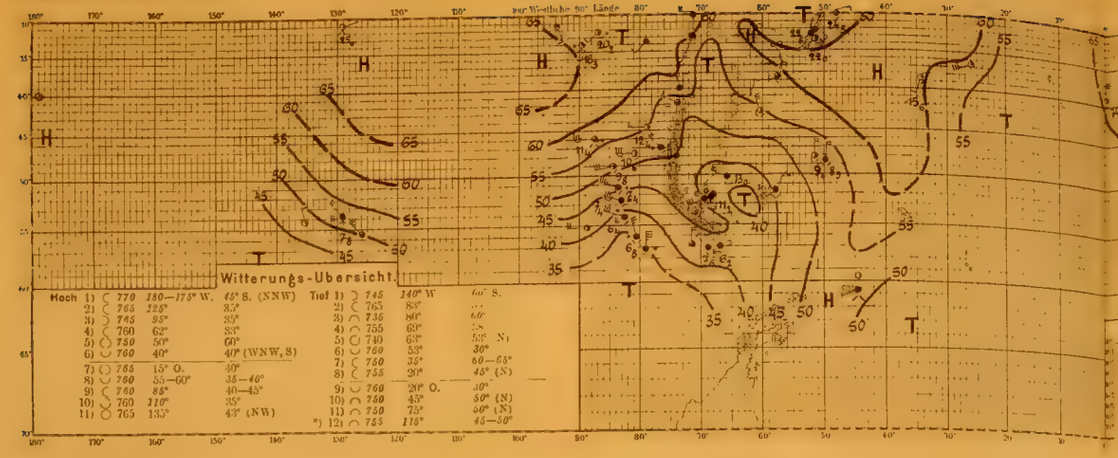


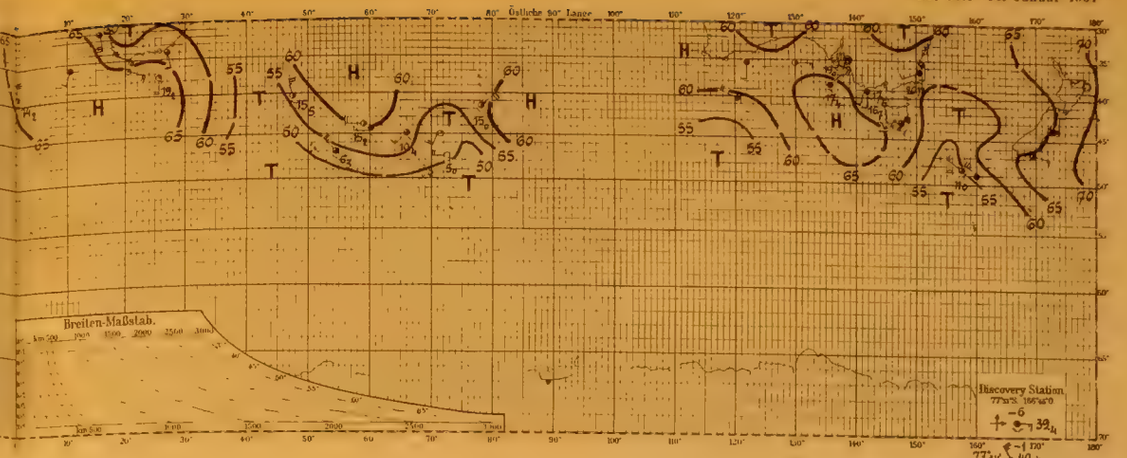
*) 13. Januar: Tief 13) ∪ 760 145° 30—35° (SO)
14) ○ 765 165—170° 40°

Tafel 297. Nr. 889—891.

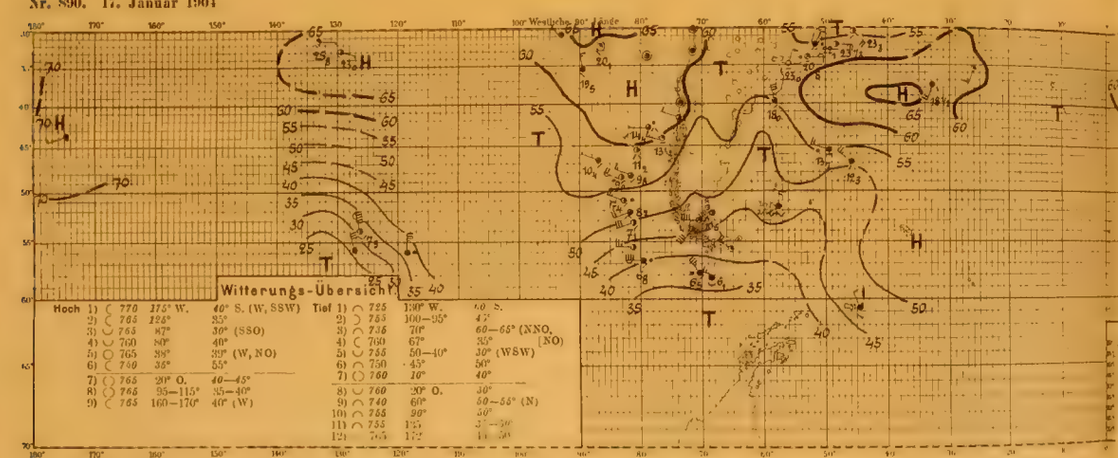
16.—18. Januar 1904.

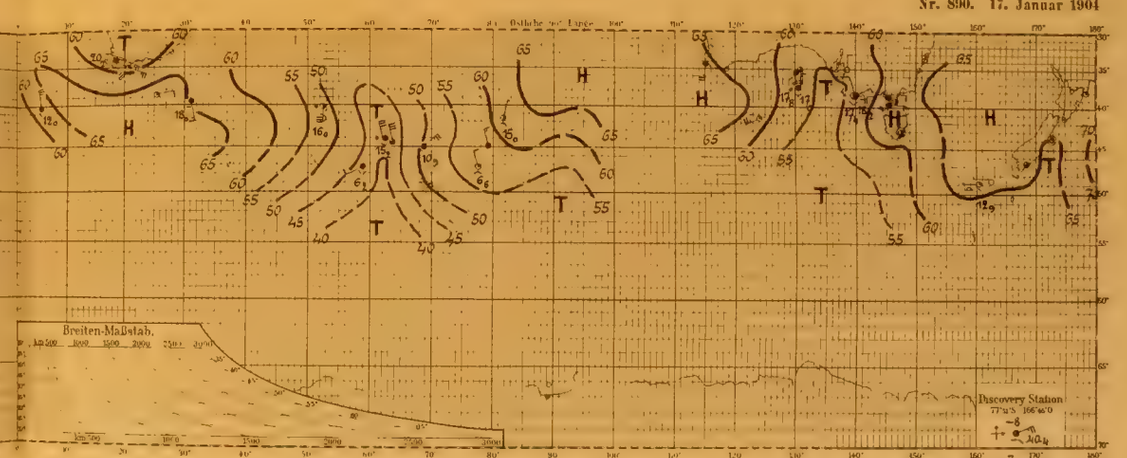
Nr. 889. 16. Januar 1904



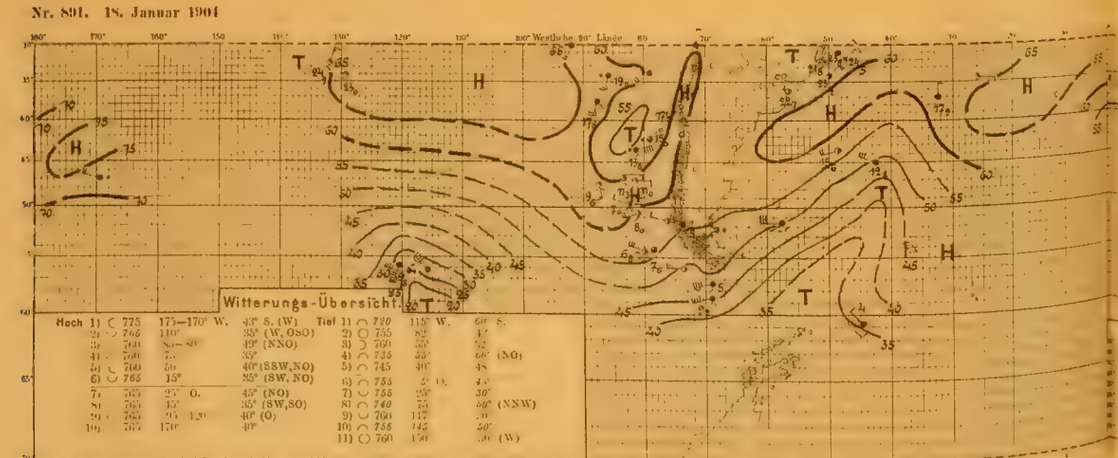


Nr. 890. 17. Januar 1904



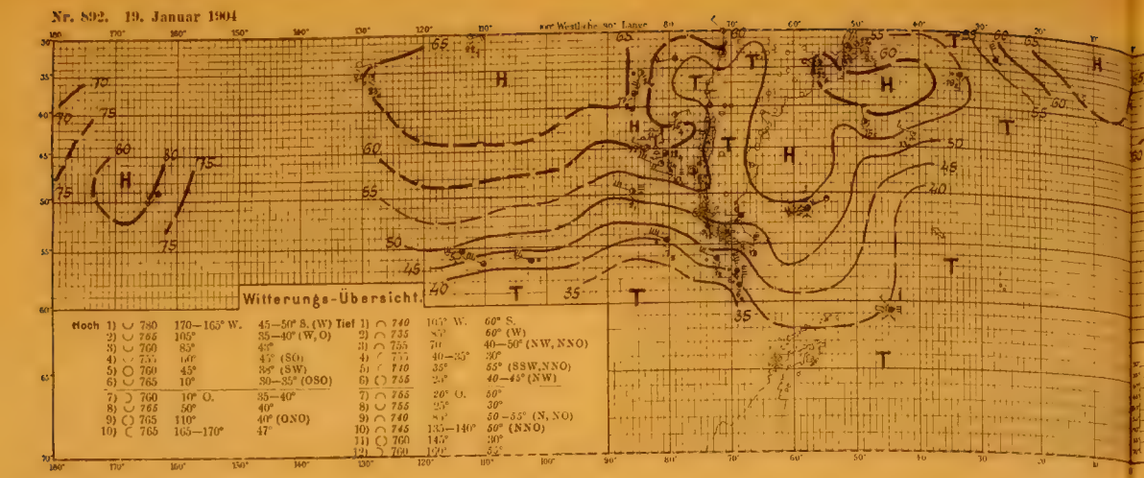


Nr. 891. 18. Januar 1904

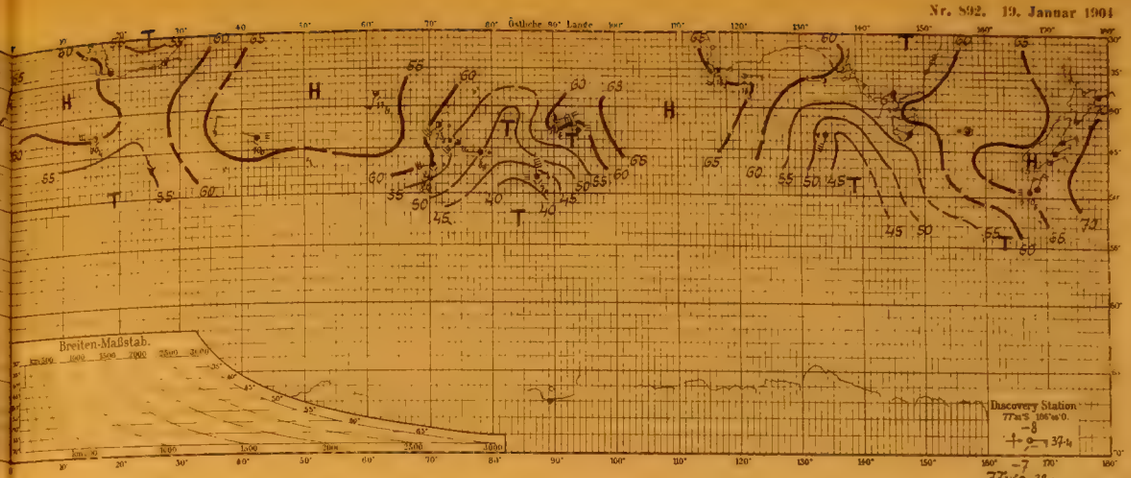


*) 16. Januar: Tief 13) 760 125° 30°
14) 760 145° 30°
15) 755 150° 40° (N)

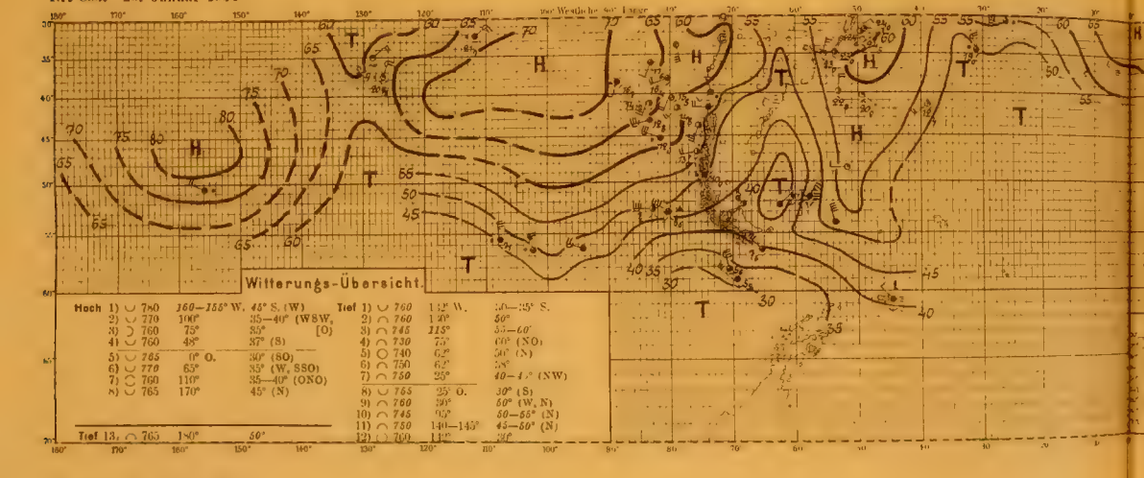
Nr. 892. 19. Januar 1904



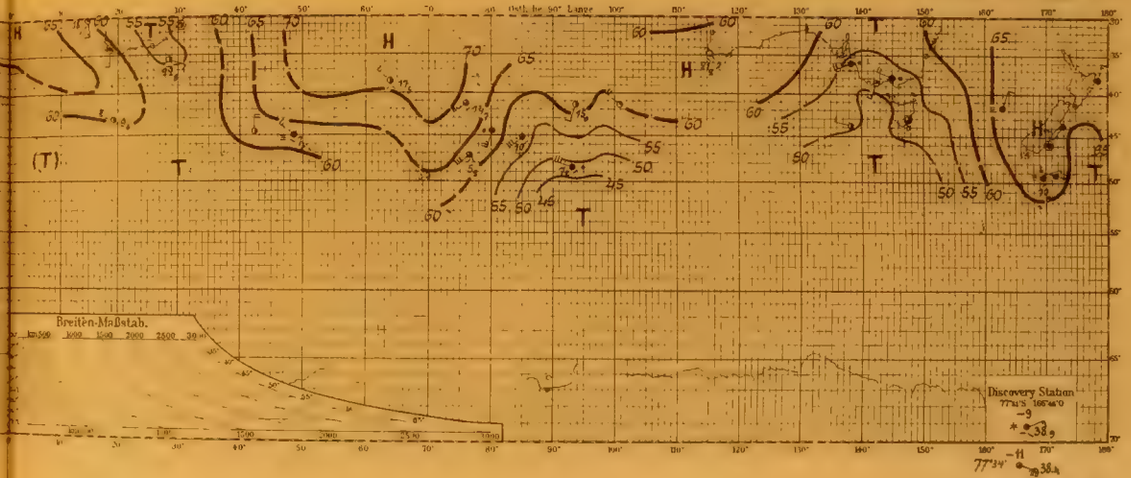
Nr. 892. 19. Januar 1904



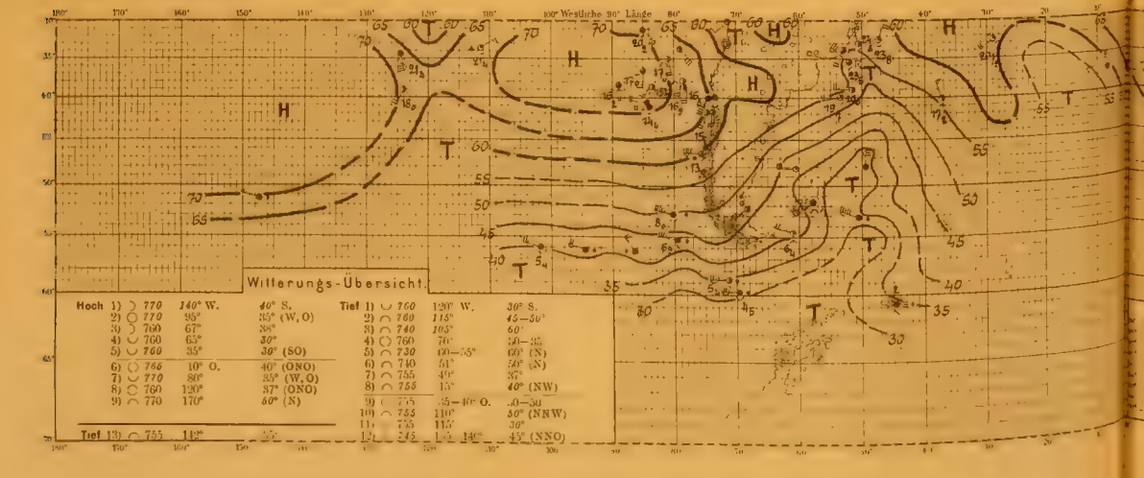
Nr. 893. 20. Januar 1904



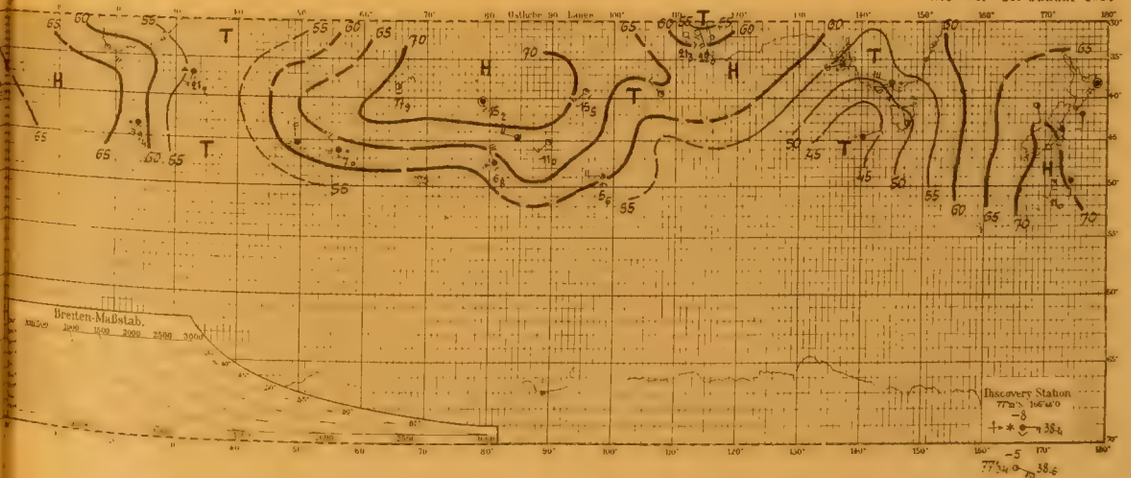
Nr. 893. 20. Januar 1904



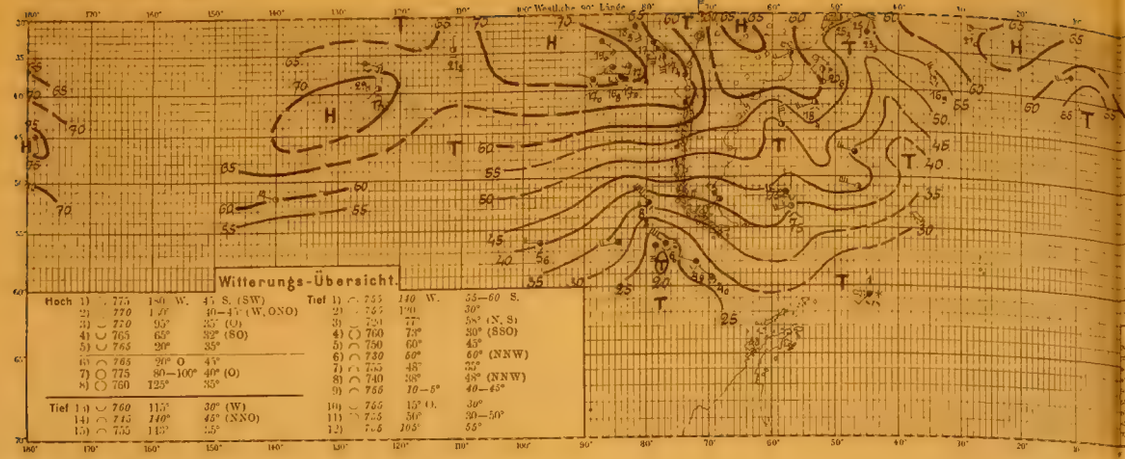
Nr. 894. 21. Januar 1904



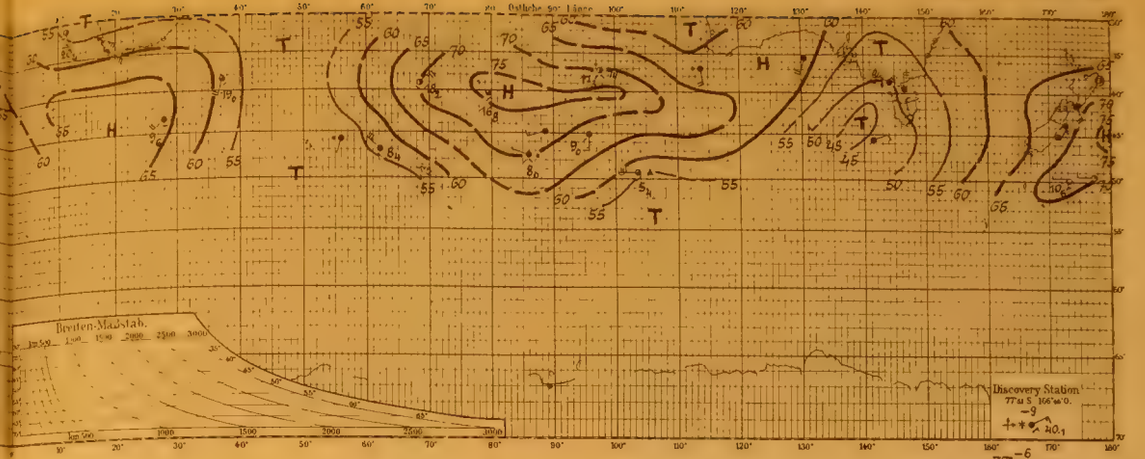
Nr. 894. 21. Januar 1904



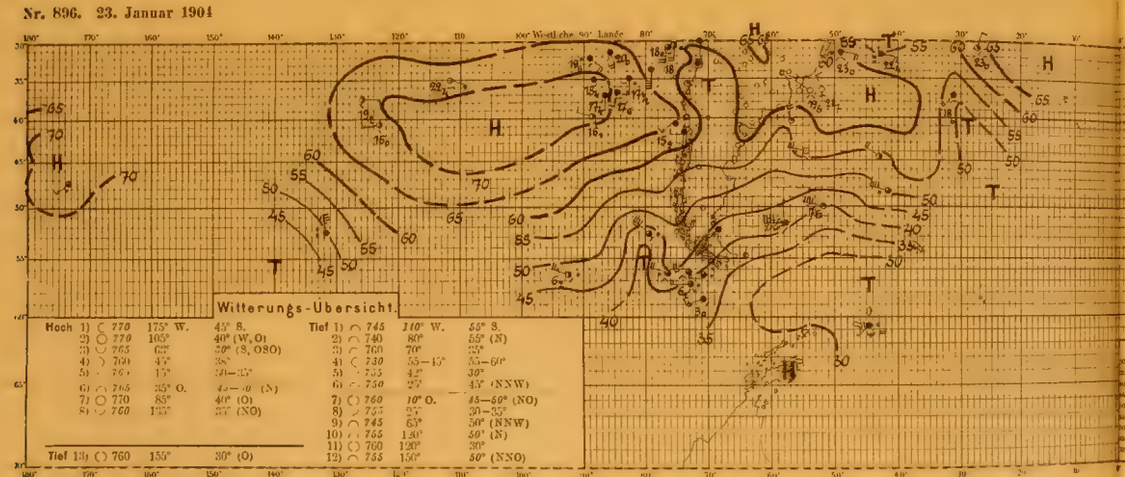
Nr. 895. 22. Januar 1904



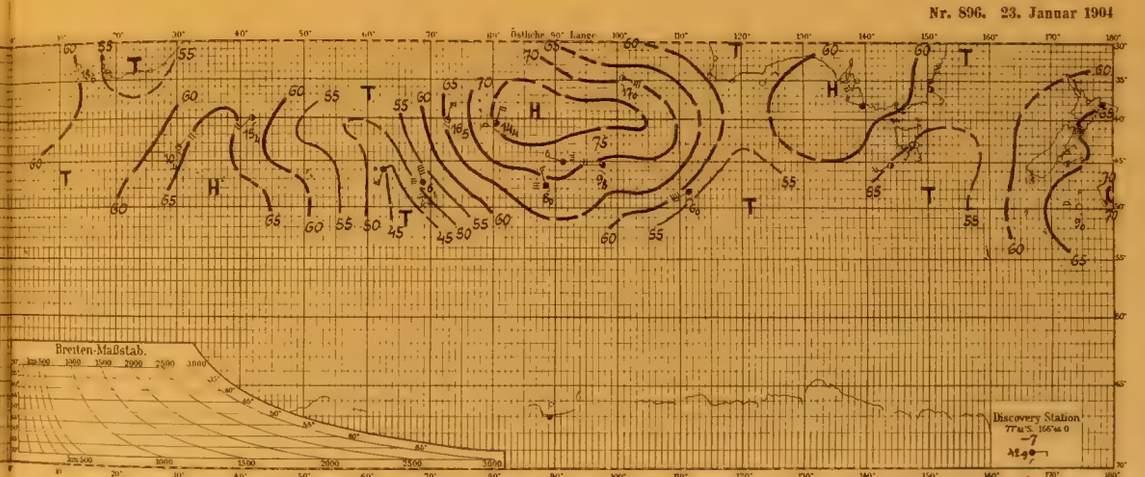
Nr. 895. 22. Januar 1904



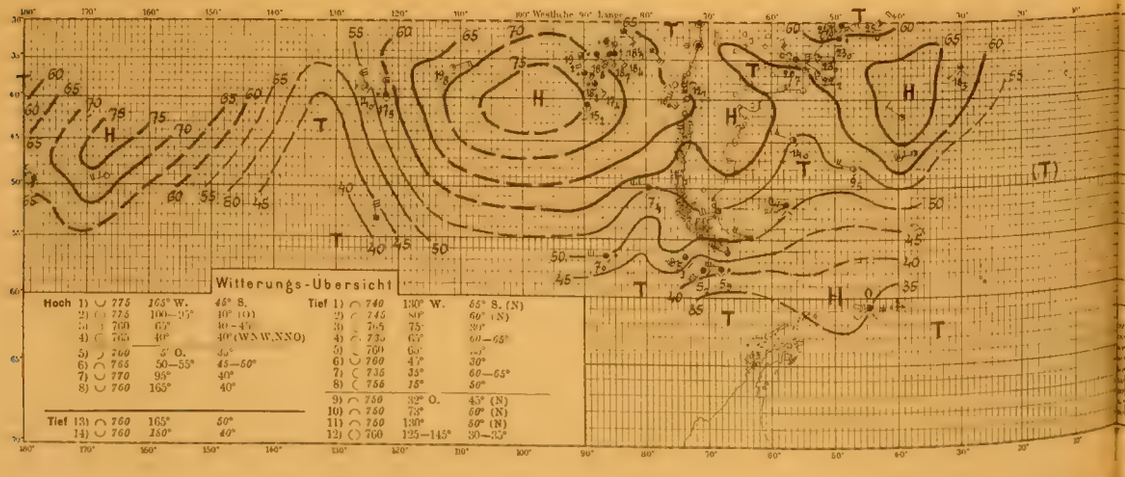
Nr. 896. 23. Januar 1904



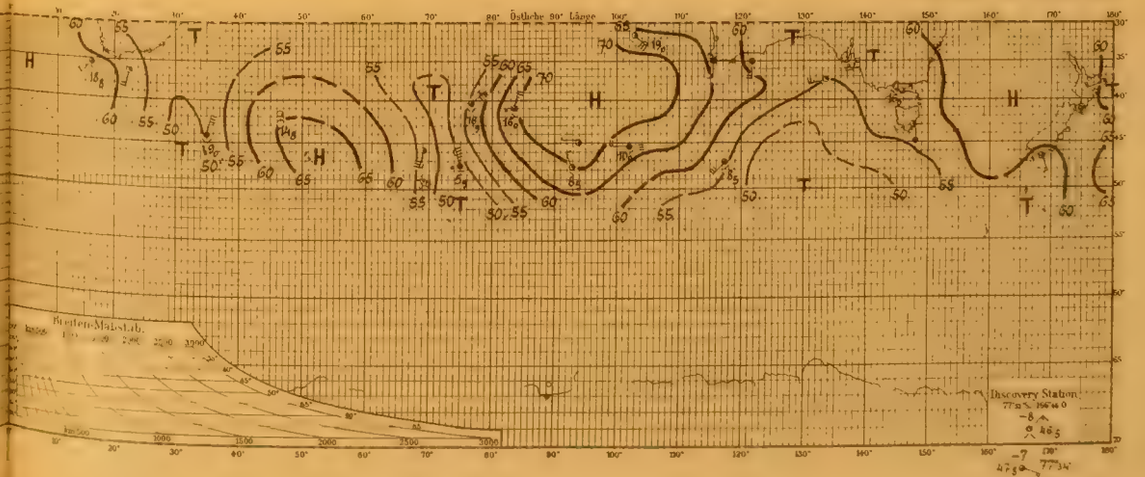
Nr. 896. 23. Januar 1904



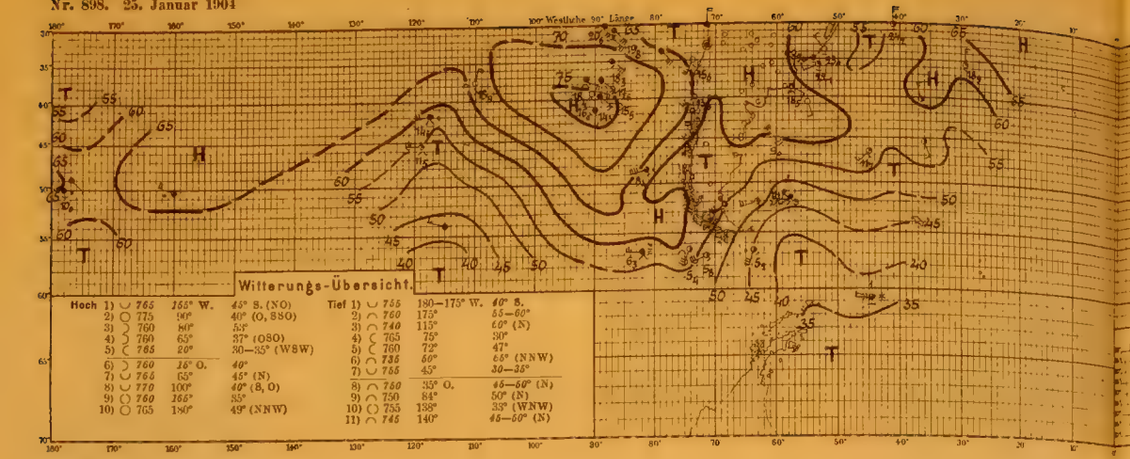
Nr. 897. 24. Januar 1904

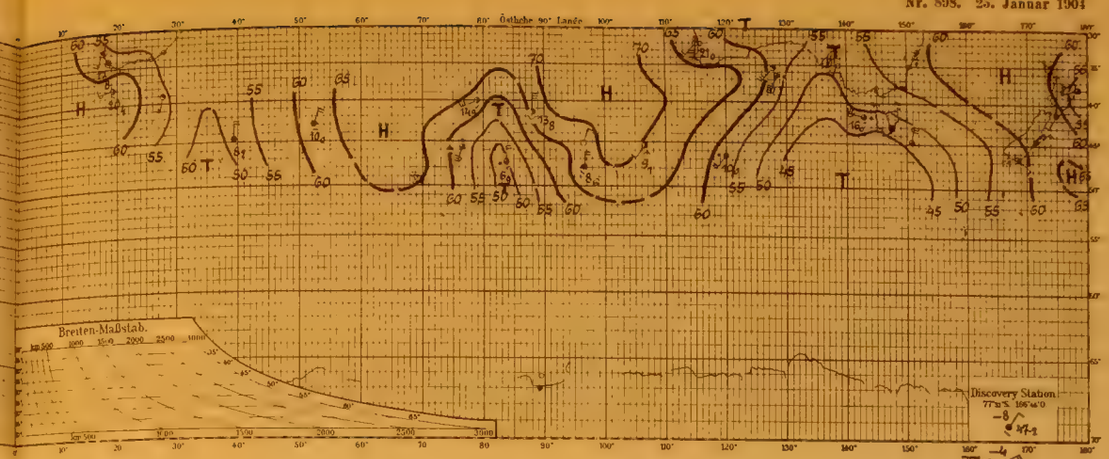


Nr. 897. 24. Januar 1904

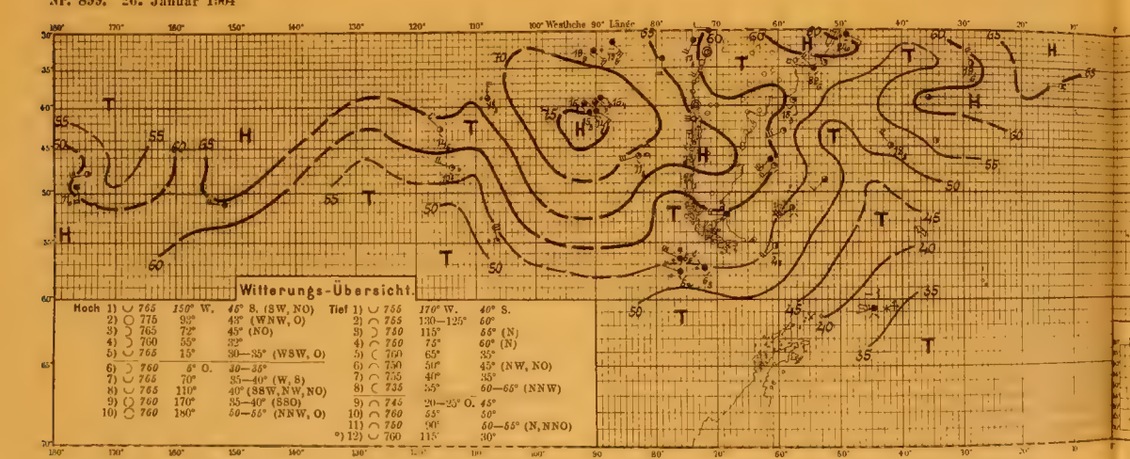


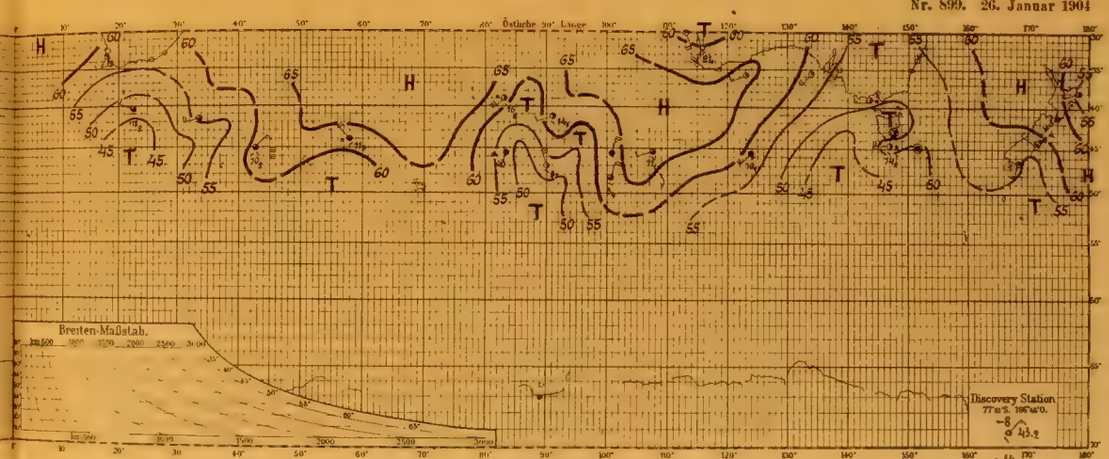
Nr. 898. 25. Januar 1904



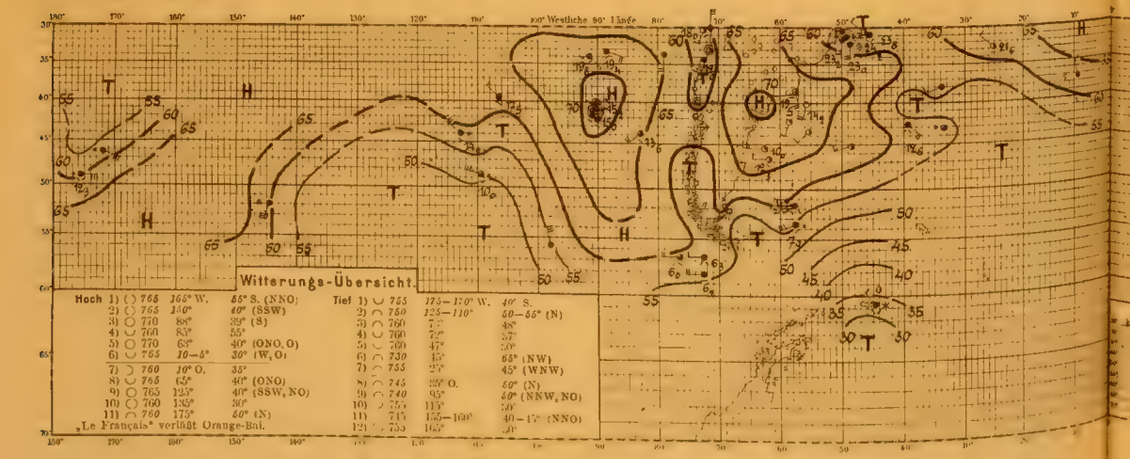


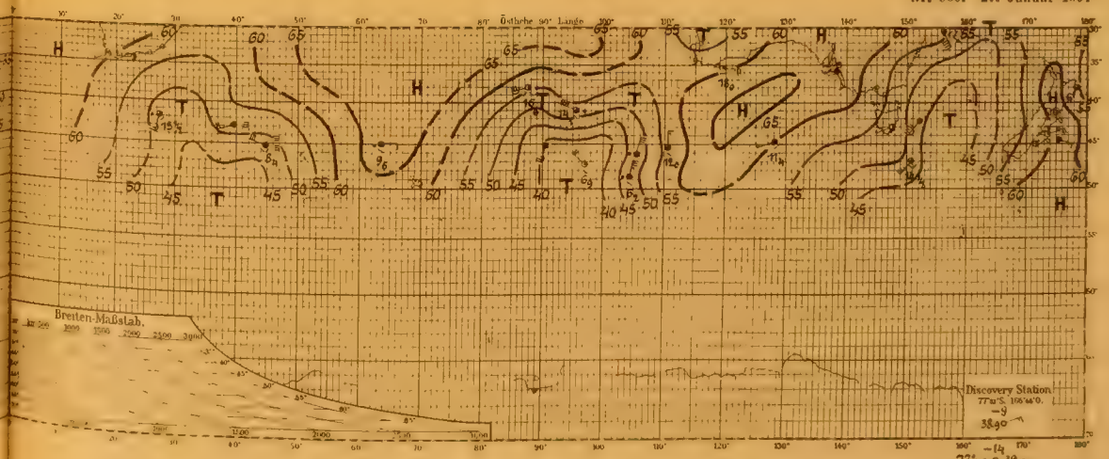
Nr. 899. 26. Januar 1904





Nr. 900. 27. Januar 1904





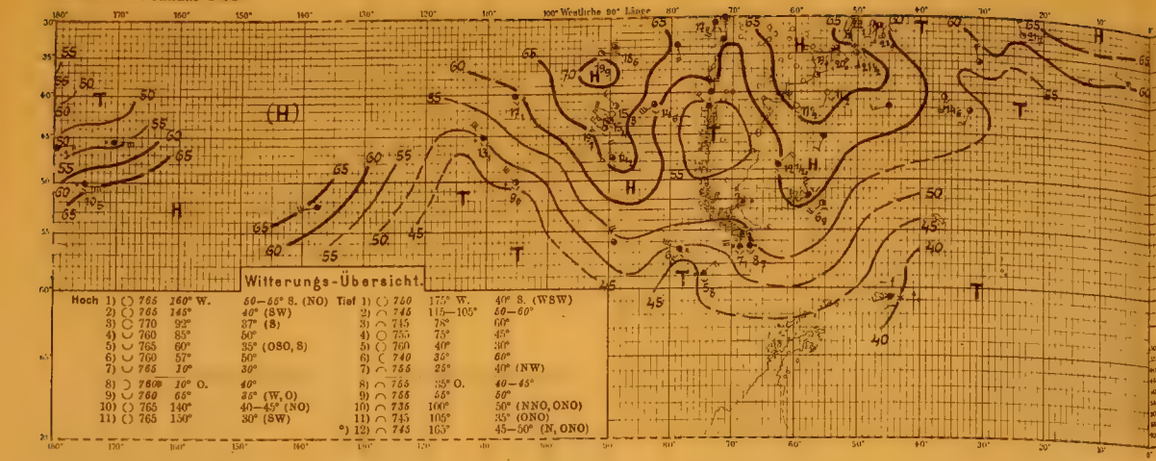
*) 26. Januar: Tief 13) ∩ 745 140° 50° (NNO, NO)
14) (755 145° 30°
15) ∩ 755 170° 50°

Tafel 301. *Nr. 901—903.*

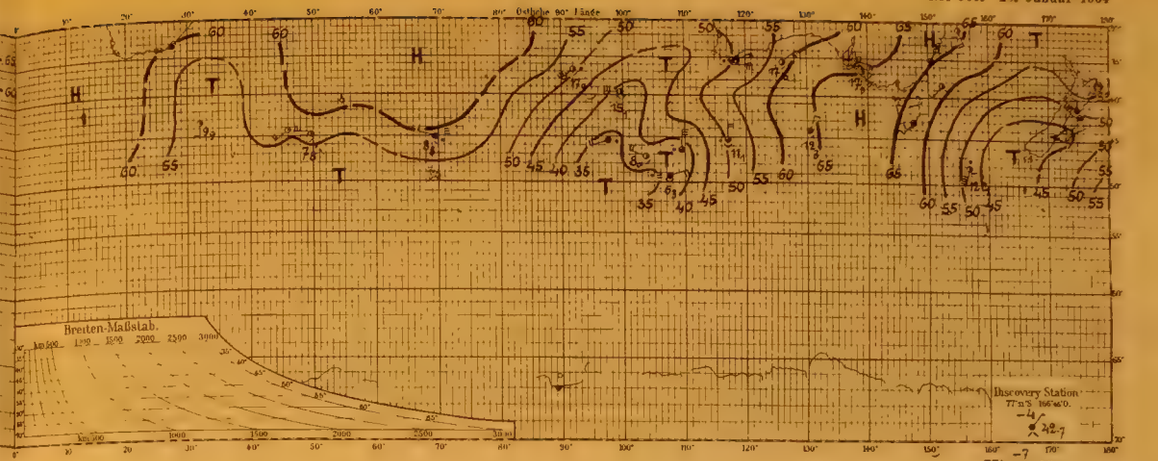
28.—30. Januar 1904.

MARINE BIOLOGICAL LABORATORY
WOODS HOLE
LIBRARY
MASS.

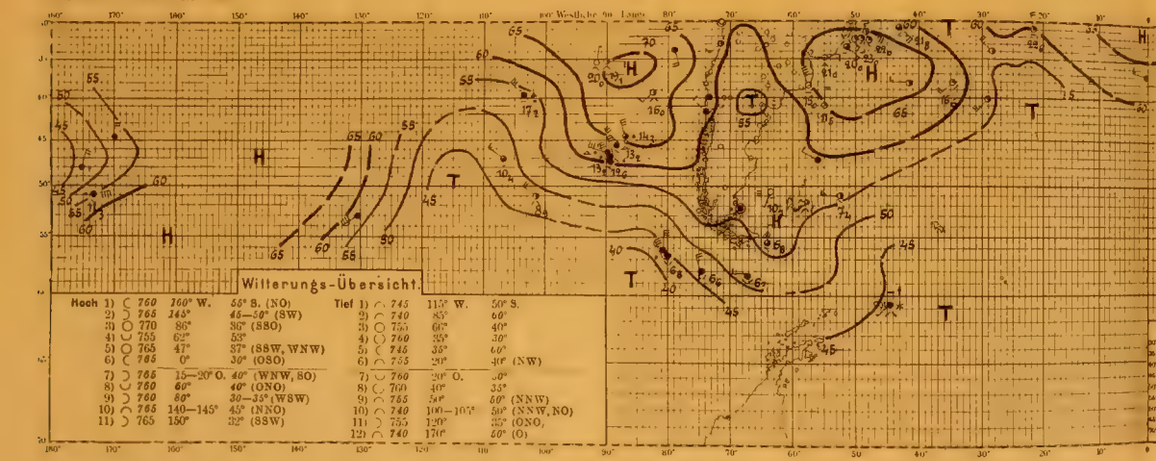
Nr. 901. 28. Januar 1904



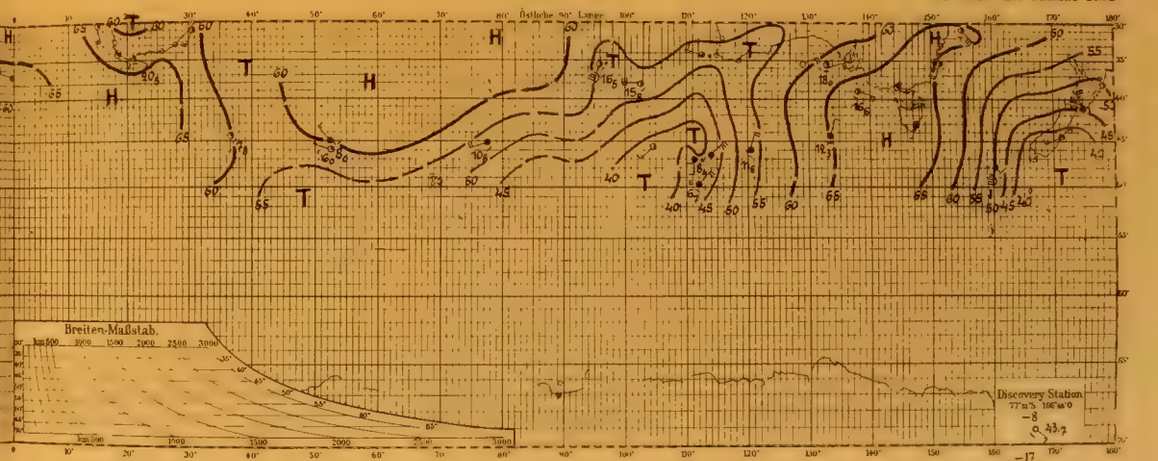
Nr. 901. 28. Januar 1904



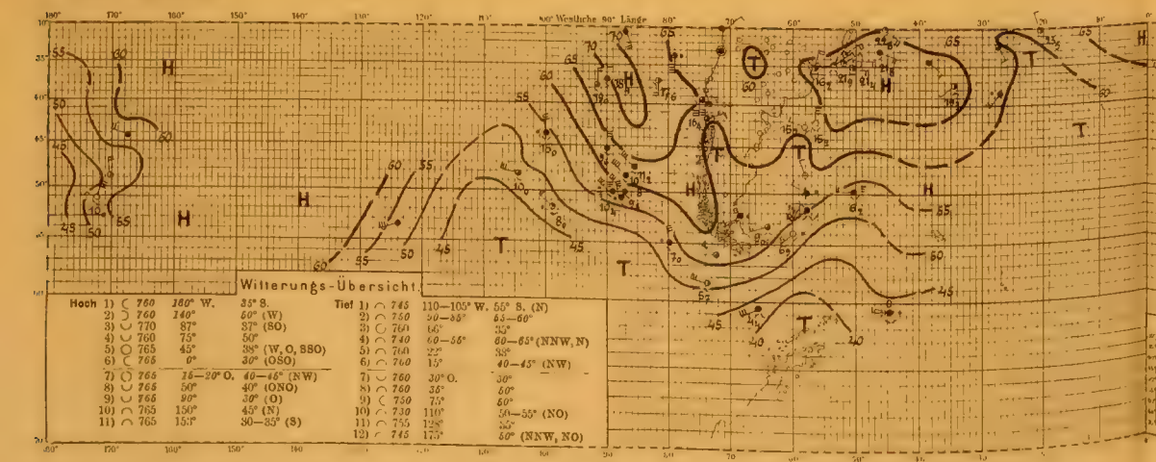
Nr. 902. 29. Januar 1904



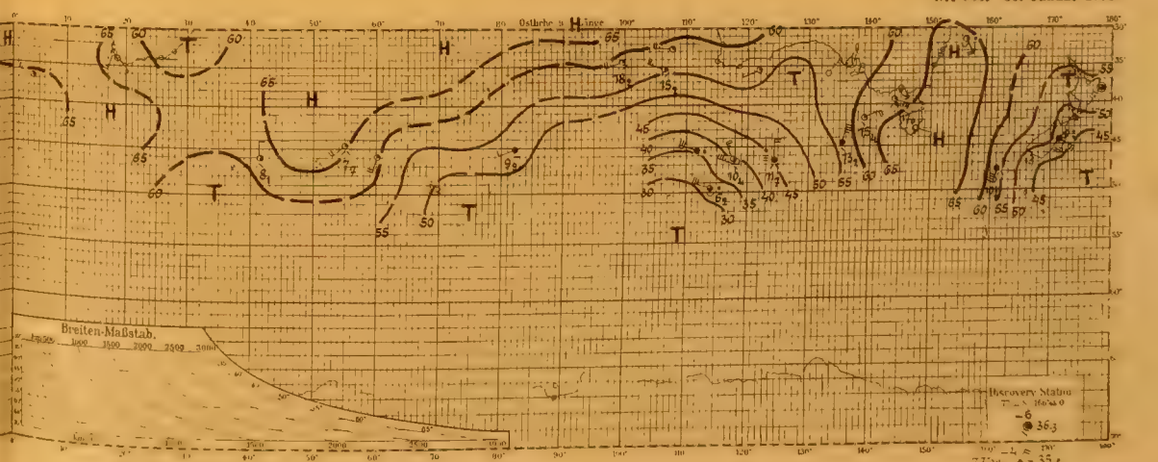
Nr. 902. 29. Januar 1904



Nr. 903. 30. Januar 1904



Nr. 903. 30. Januar 1904

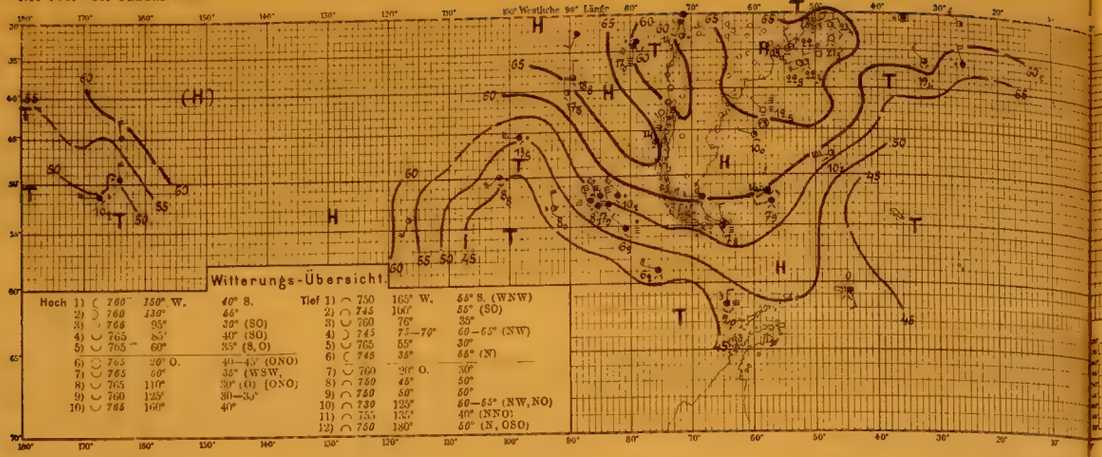


*) 28. Januar: Tief 13) ◠ 760 170° 50–55°

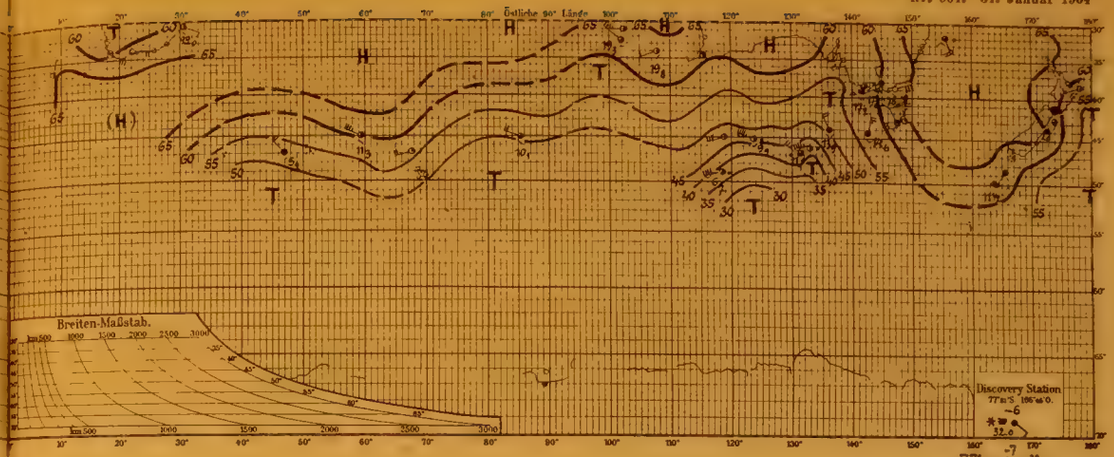
Tafel 302. *Nr. 904—906.*

31. Januar—2. Februar 1904.

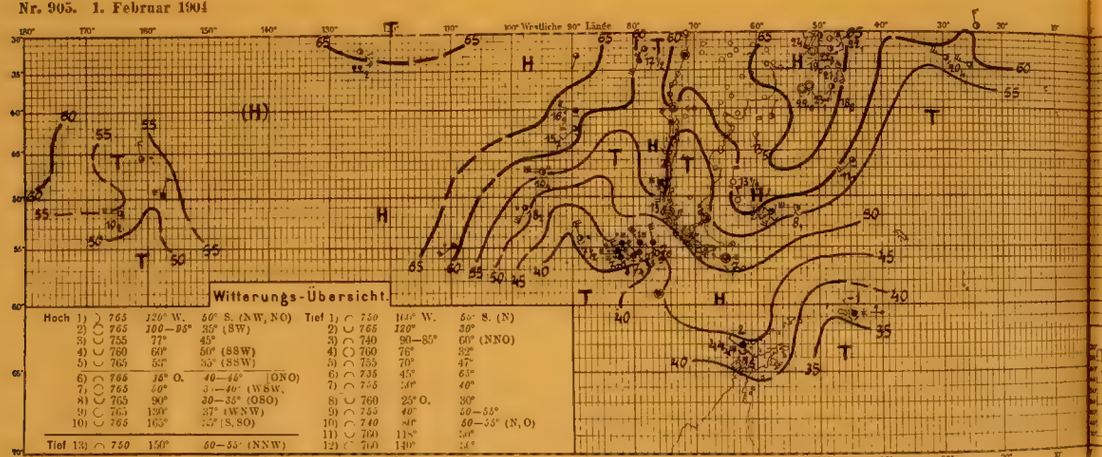
Nr. 904. 31. Januar 1904



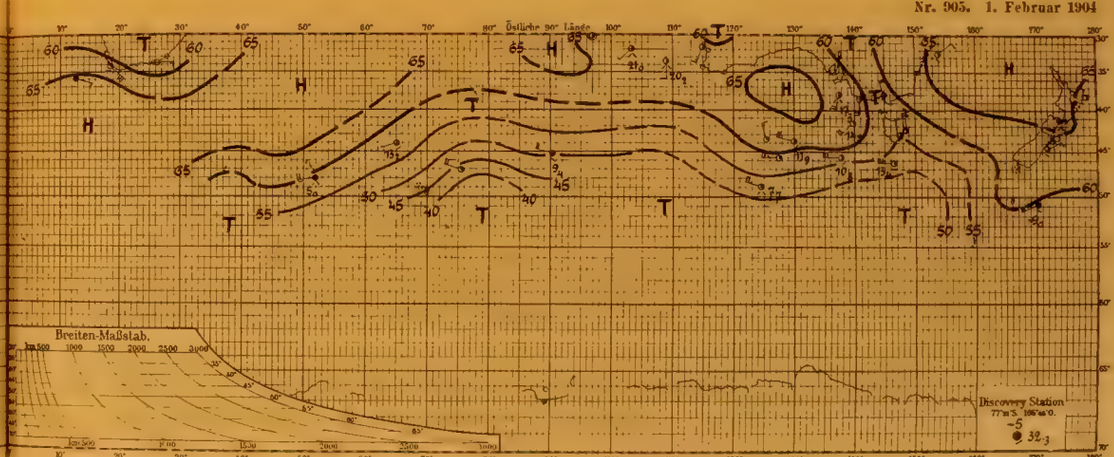
Nr. 904. 31. Januar 1904



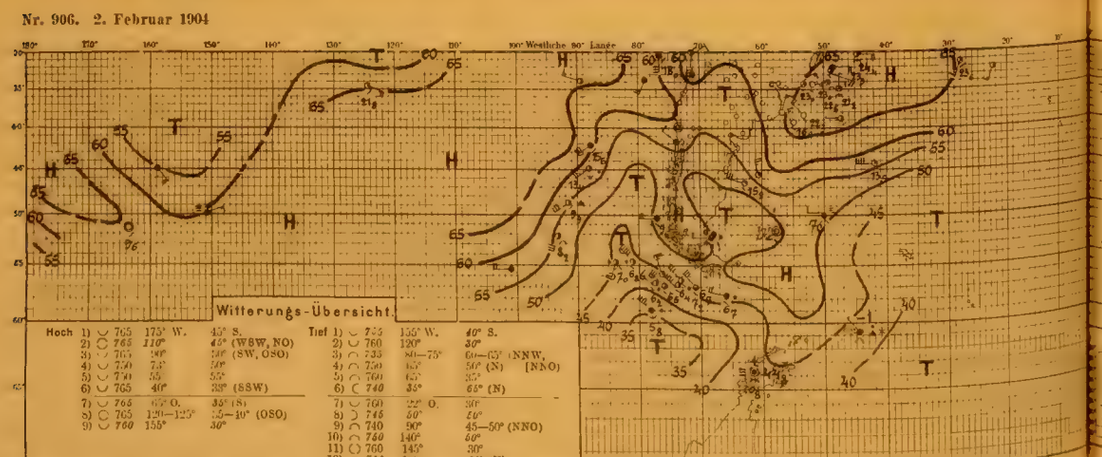
Nr. 905. 1. Februar 1904



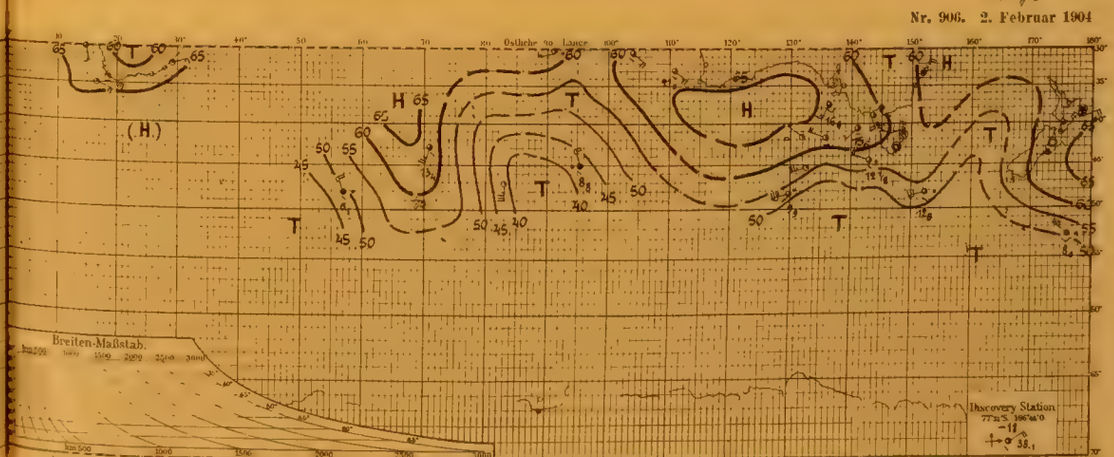
Nr. 905. 1. Februar 1904



Nr. 906. 2. Februar 1904

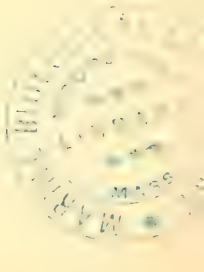


Nr. 906. 2. Februar 1904

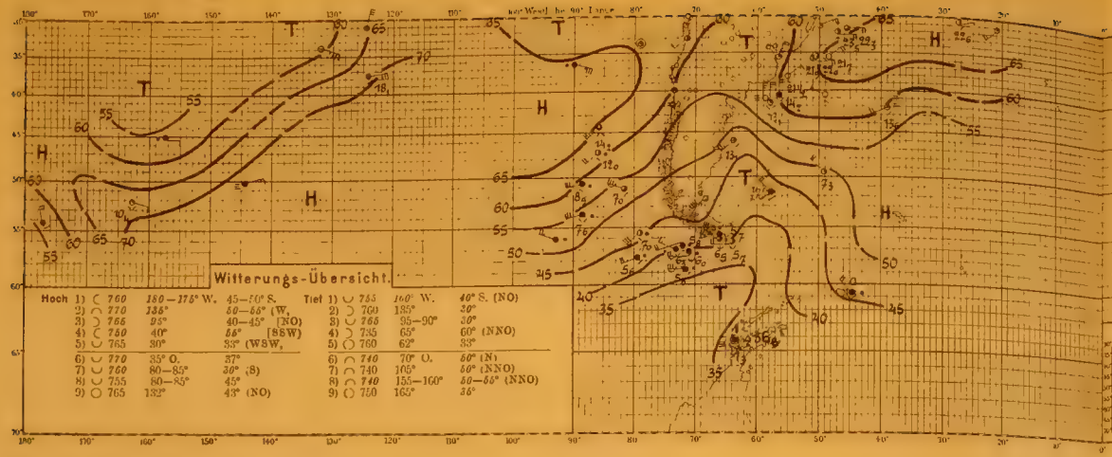


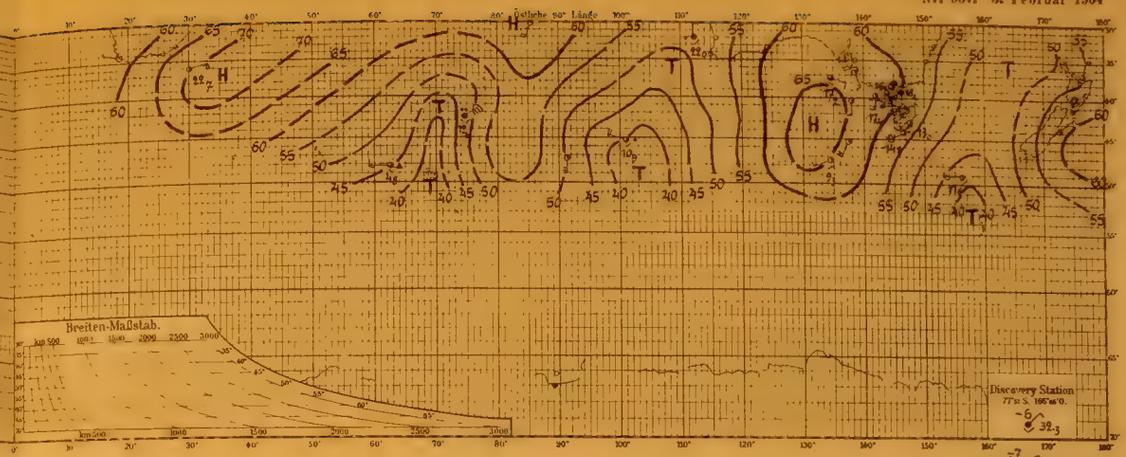
Tafel 303. *Nr. 907—909.*

3.—5. Februar 1904.

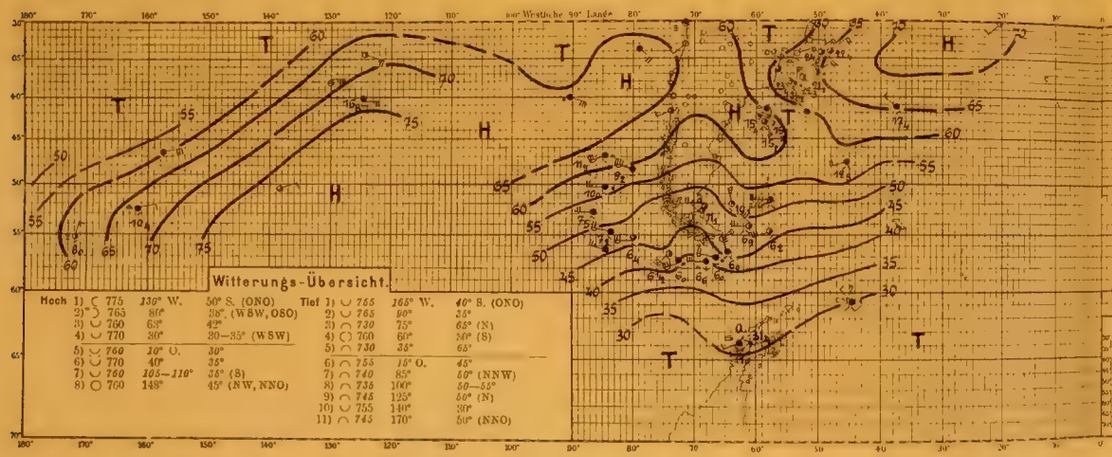


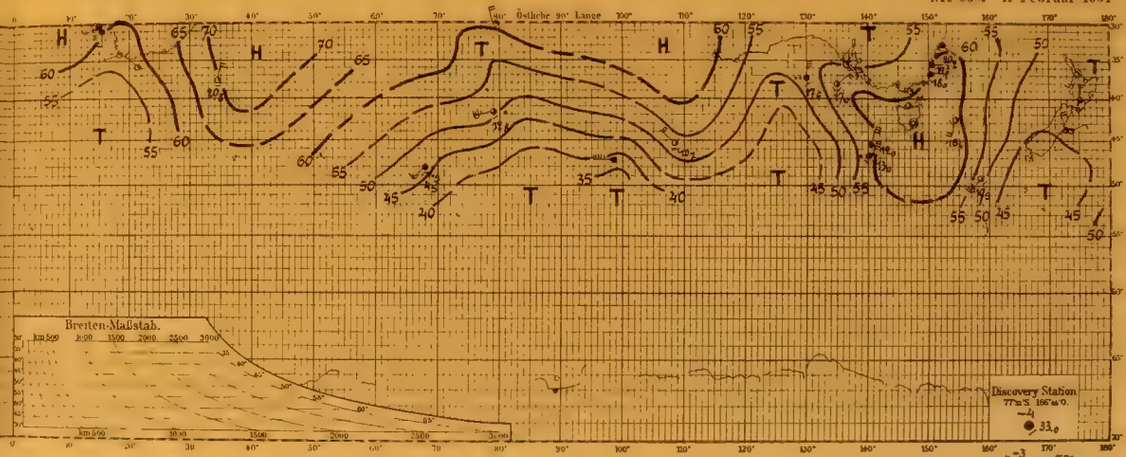
Nr. 907. 3. Februar 1904



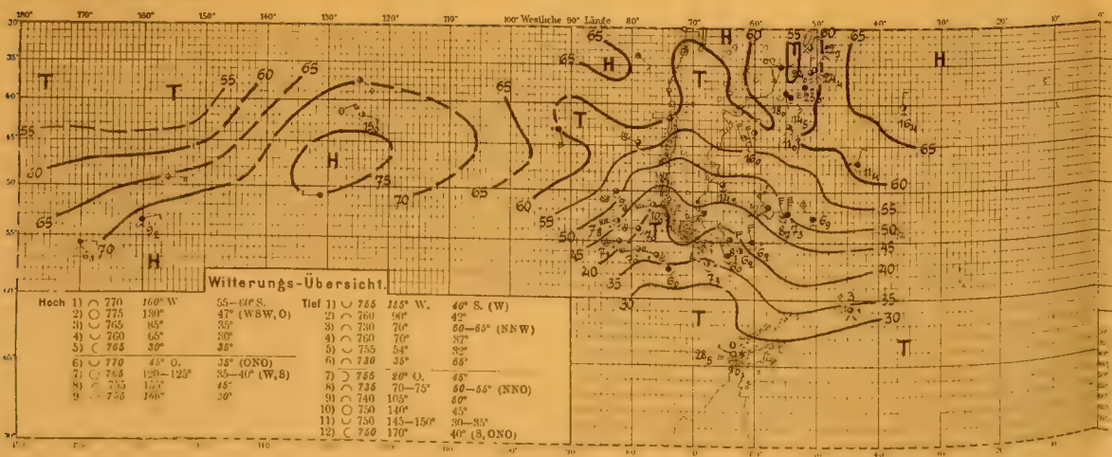


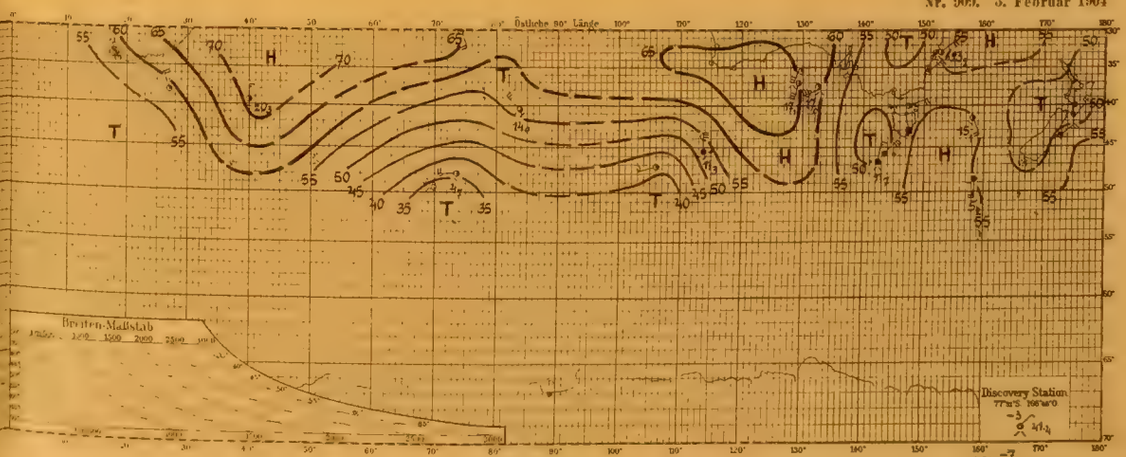
Nr. 908. 4. Februar 1904





Nr. 909. 5. Februar 1904

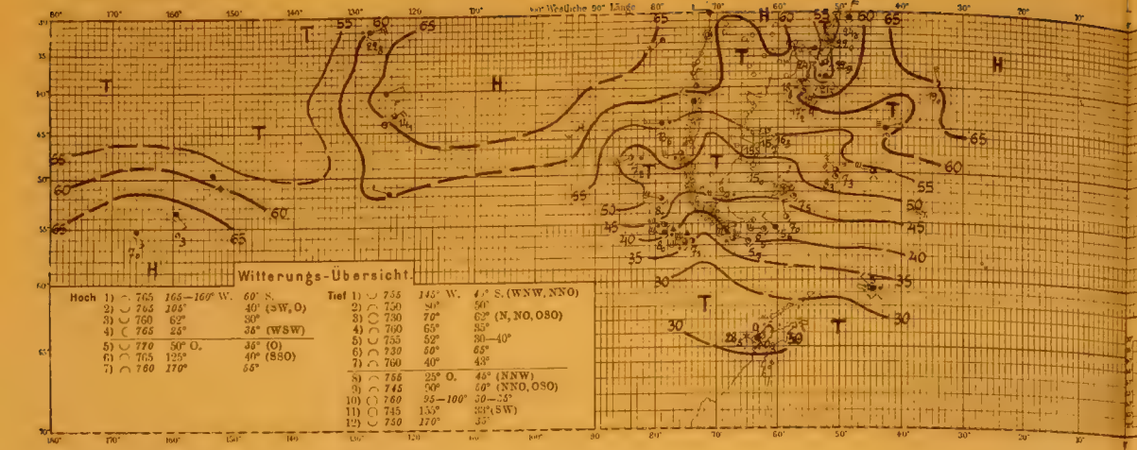


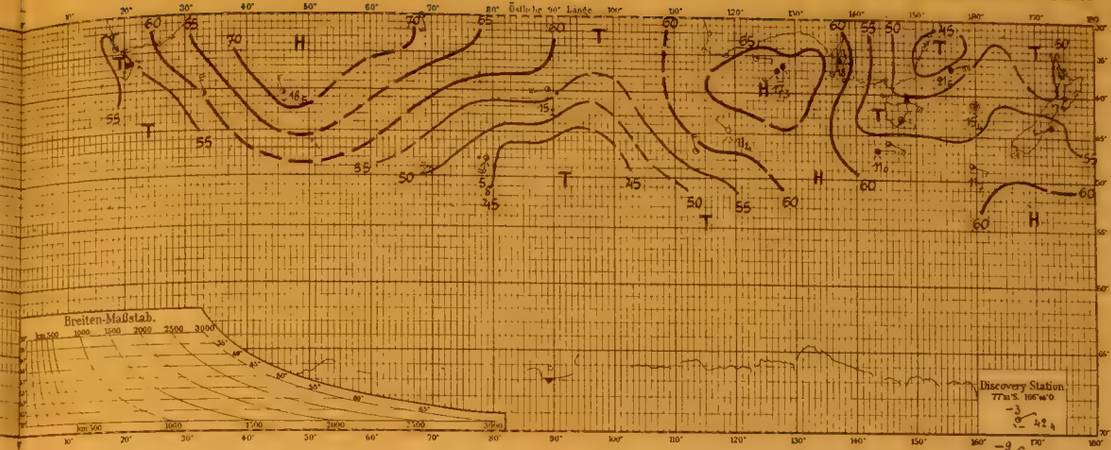


Tafel 304. Nr. 910—912.

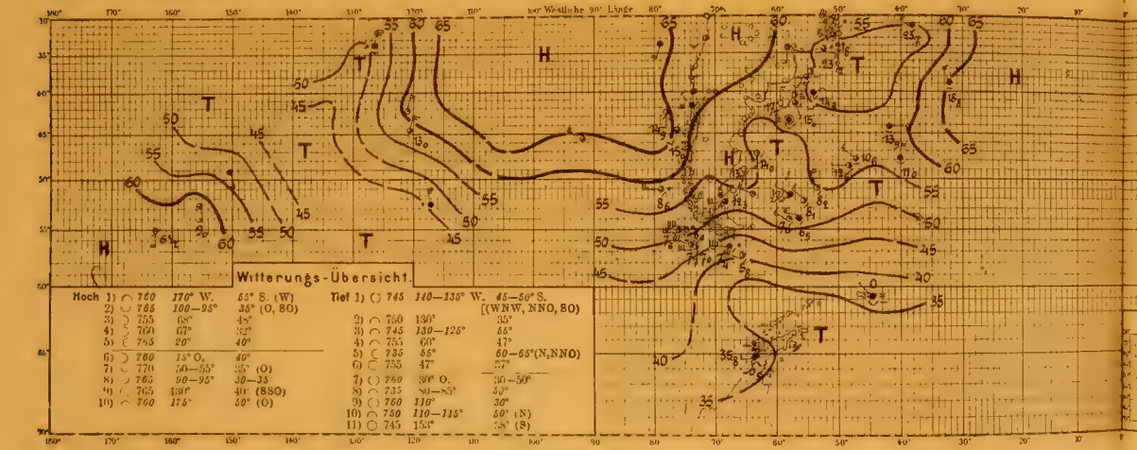
6.—8. Februar 1904.

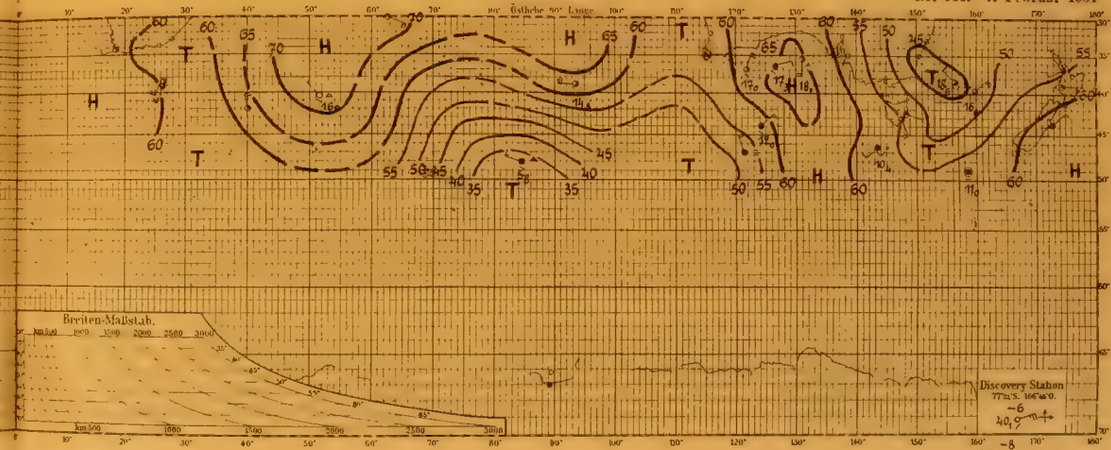
Nr. 910. 6. Februar 1904



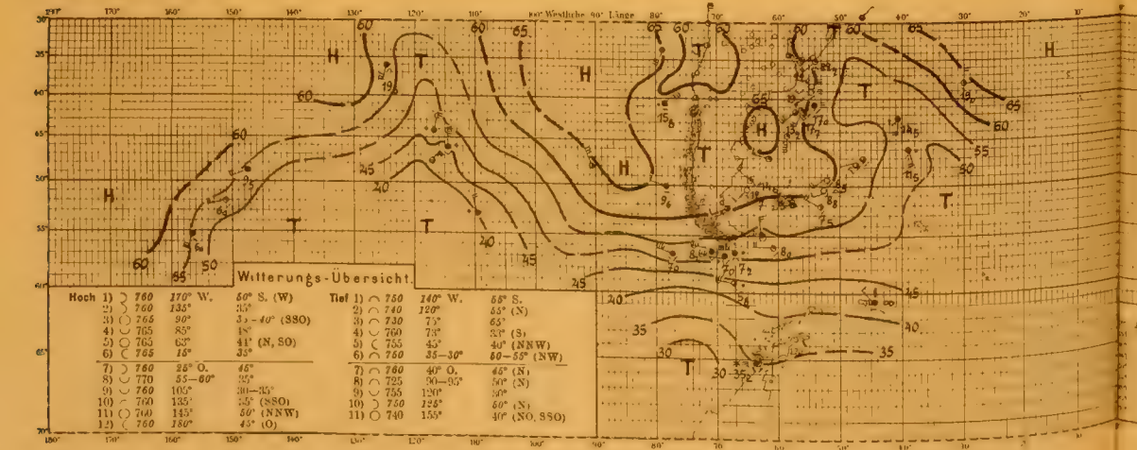


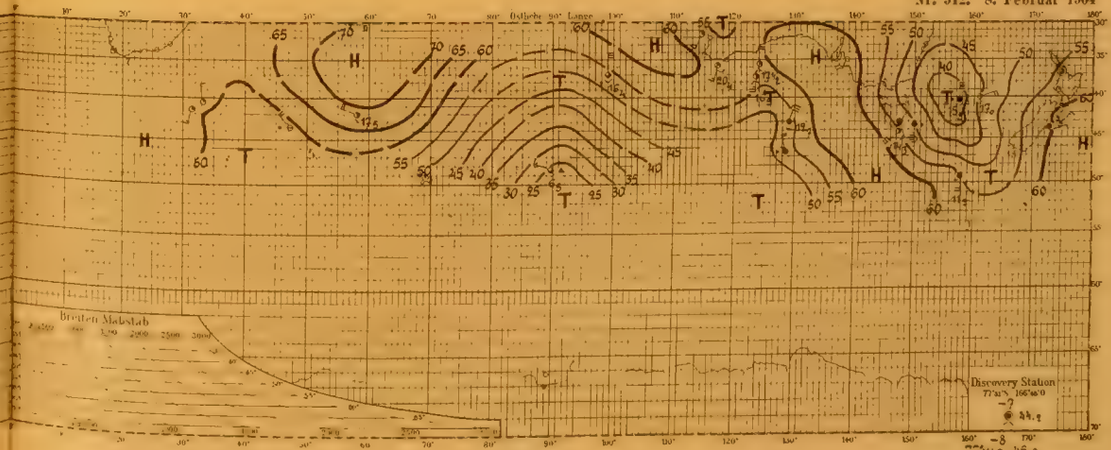
Nr. 911. 7. Februar 1904





Nr. 912. 8. Februar 1904

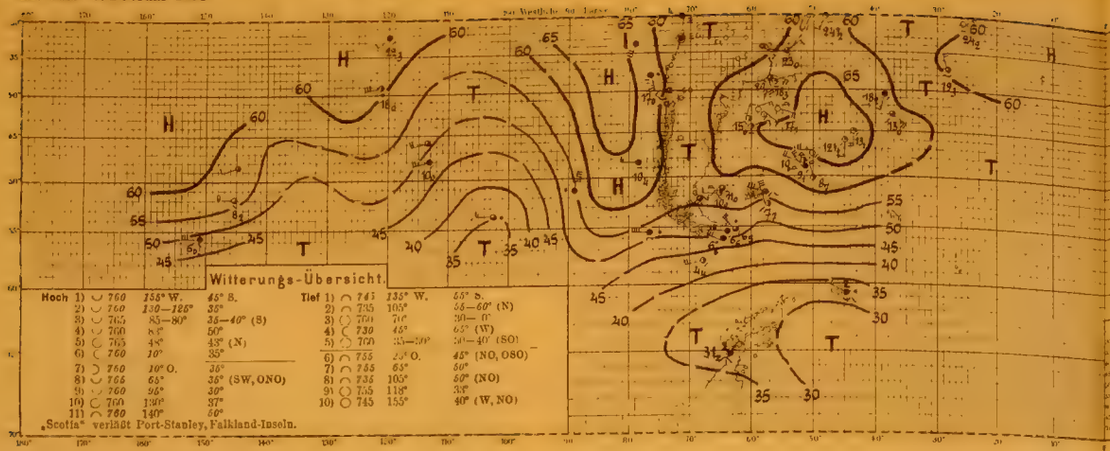




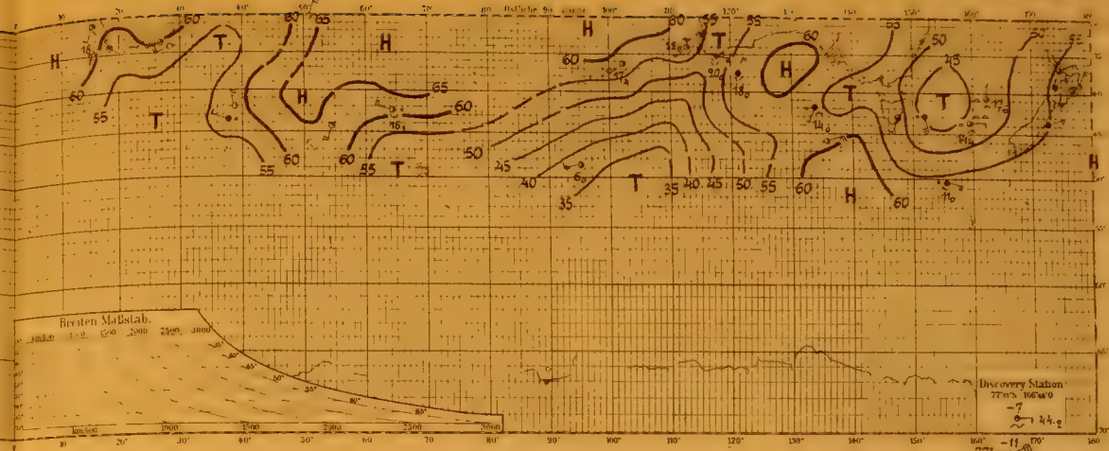
Tafel 305. Nr. 913—915.

9.—11. Februar 1904.

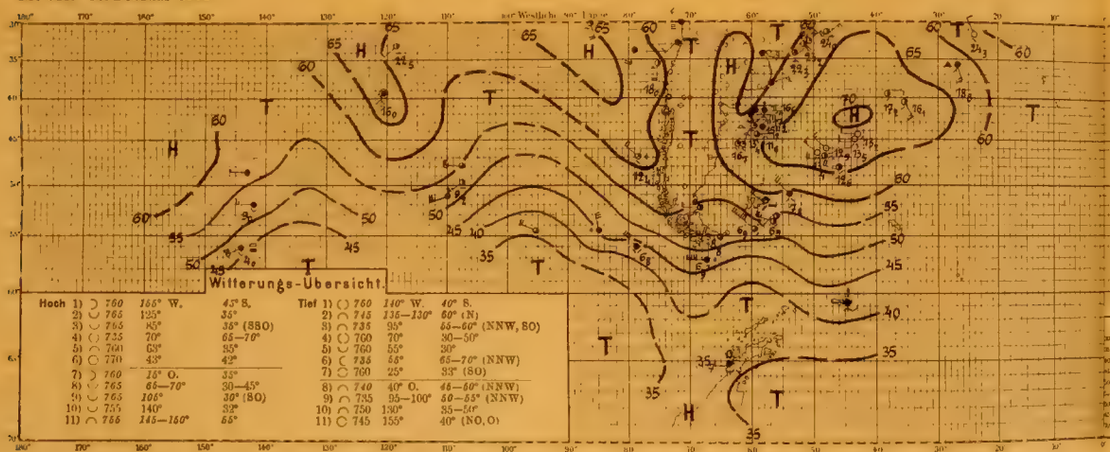
Nr. 913. 9. Februar 1904



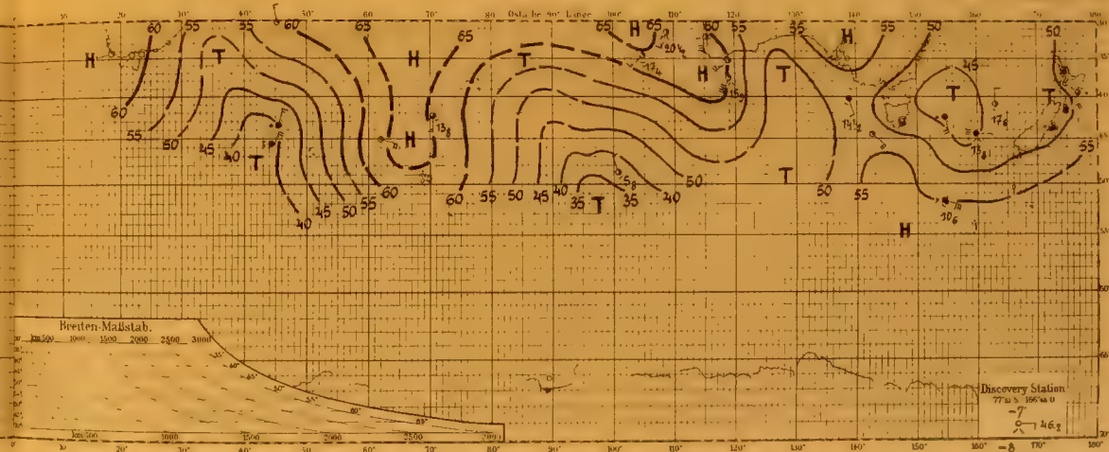
Nr. 913. 9. Februar 1904



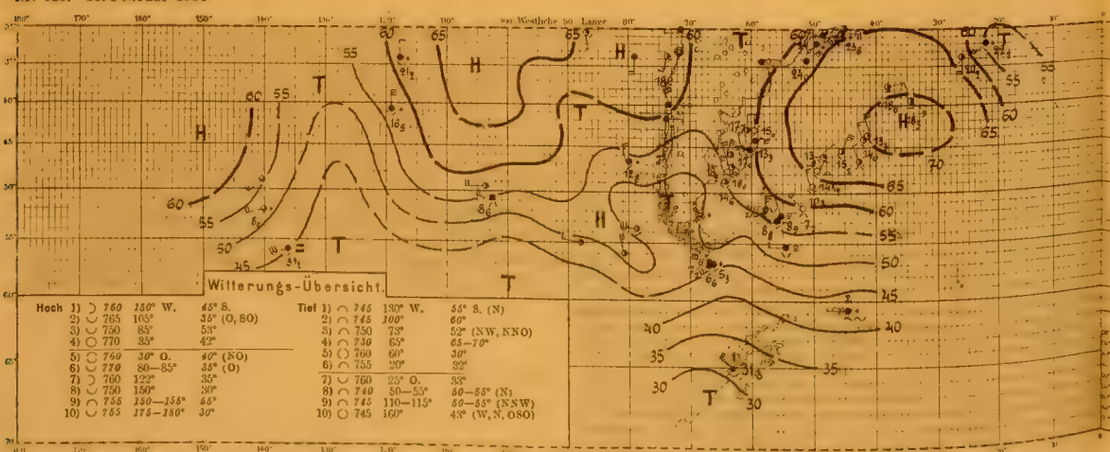
Nr. 914. 10. Februar 1904



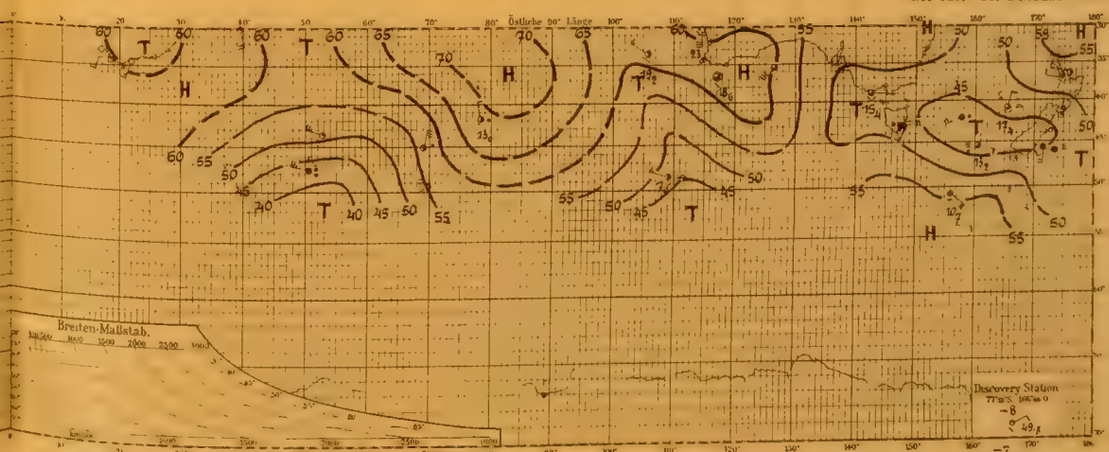
Nr. 914. 10. Februar 1904



Nr. 915. 11. Februar 1904



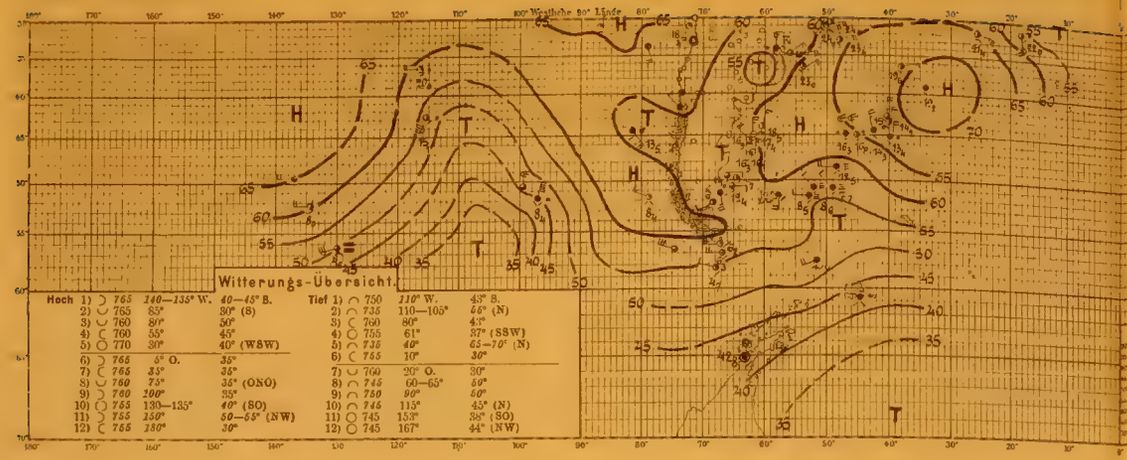
Nr. 915. 11. Februar 1904

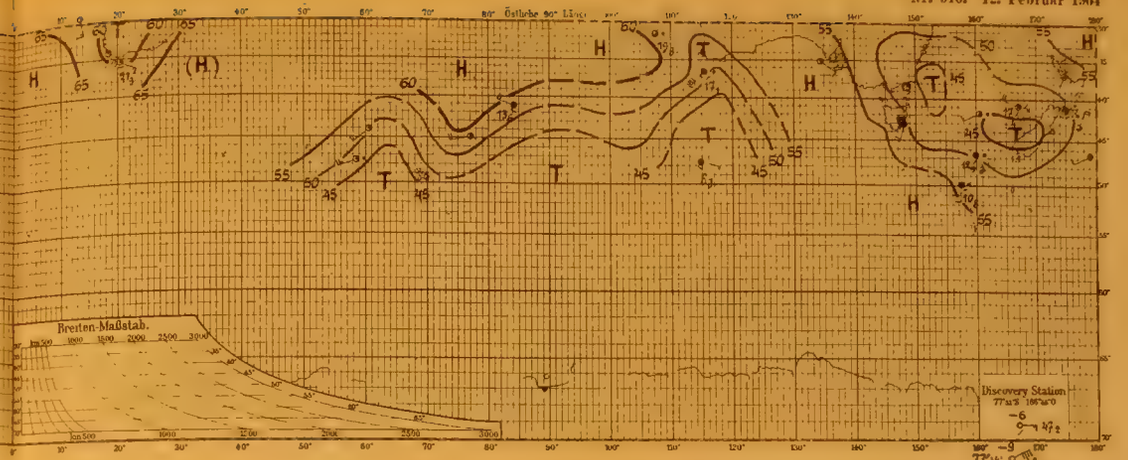


Tafel 306. *Nr. 916–918.*

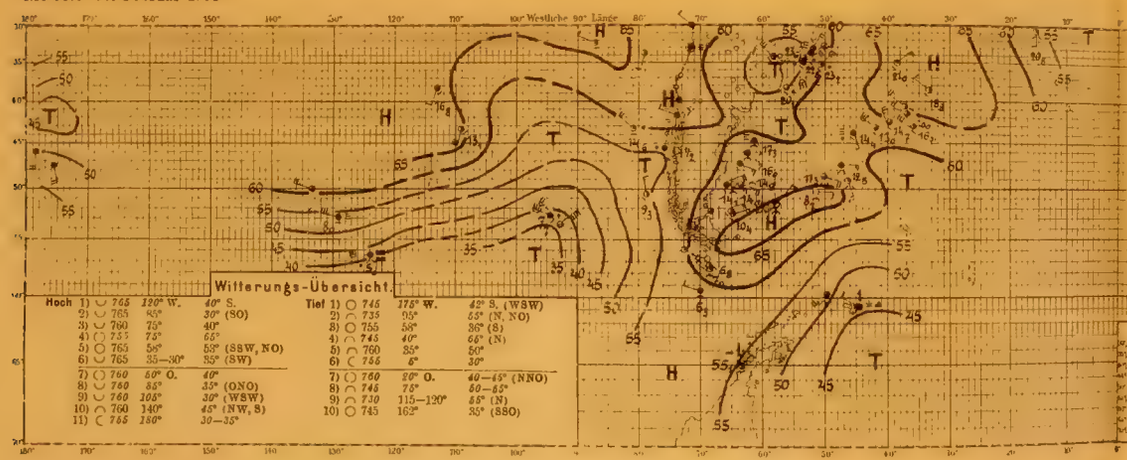
12.—14. Februar 1904.

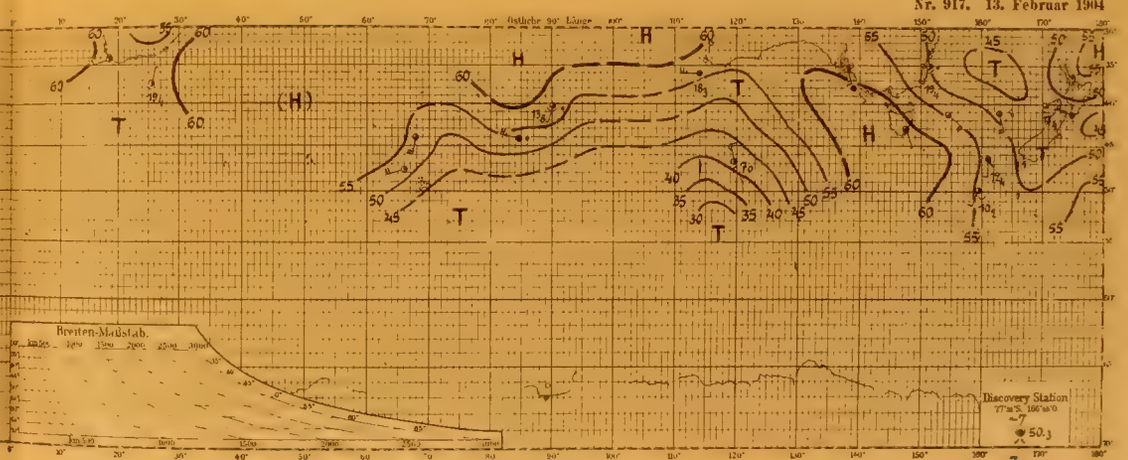
Nr. 916. 12. Februar 1904



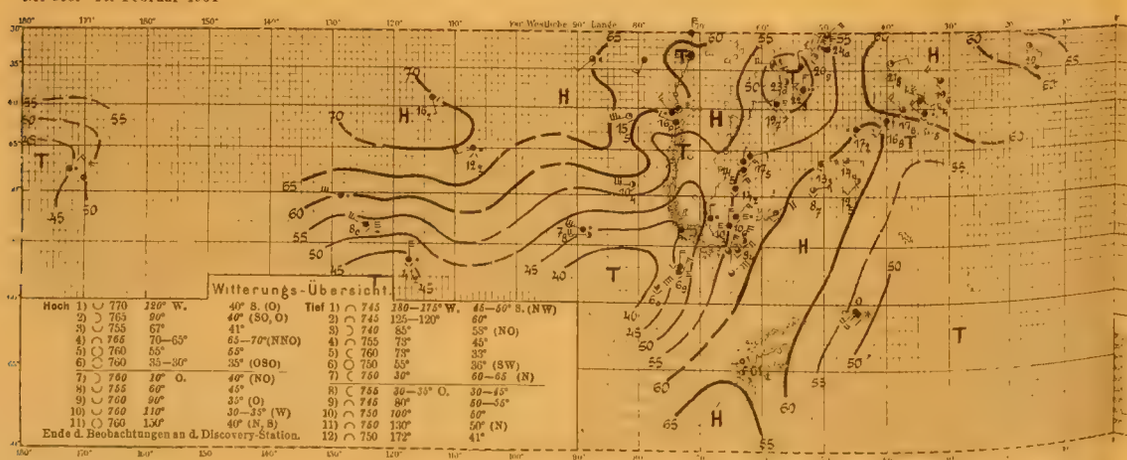


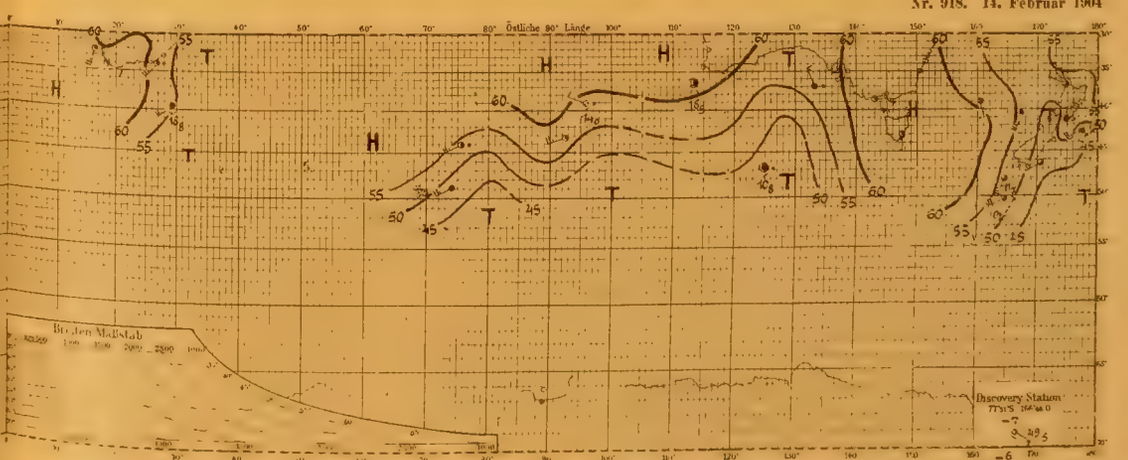
Nr. 917. 13. Februar 1904





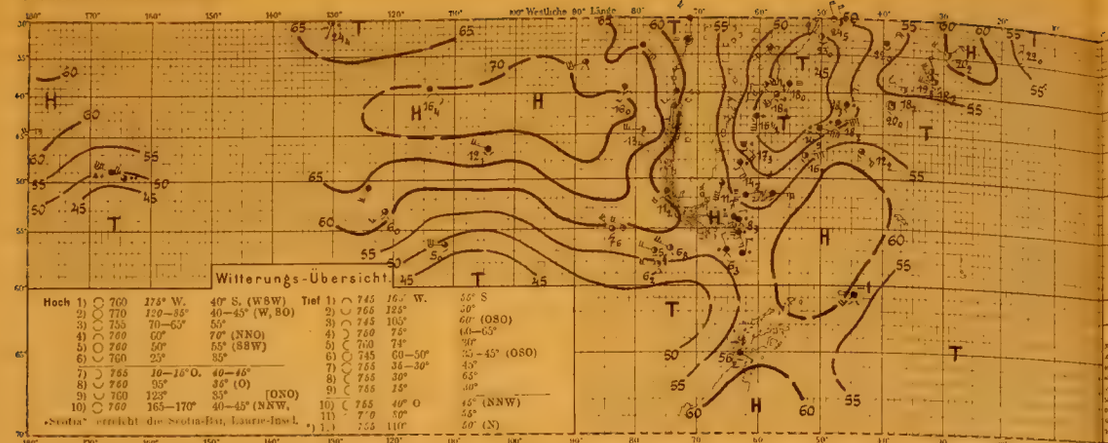
Nr. 918. 14. Februar 1904



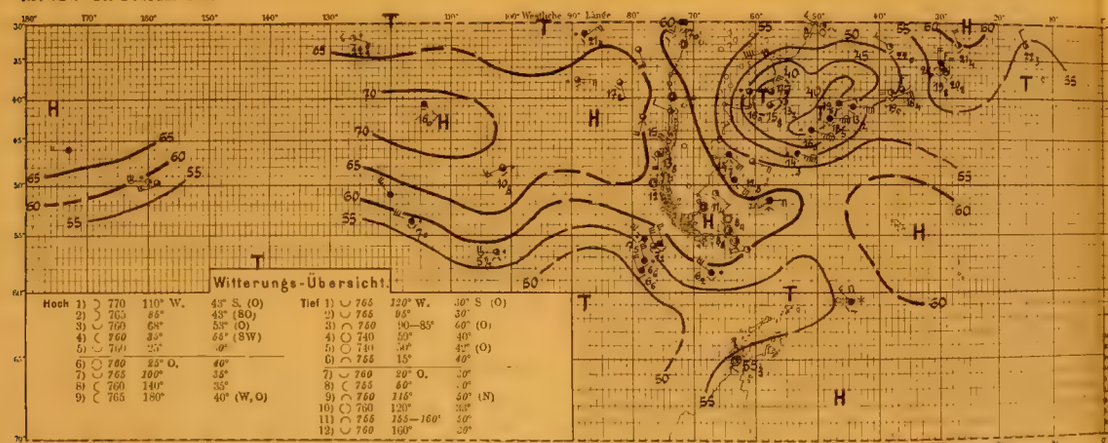


Tome 307. No. 919—921.
15.—17. Februar 1904.

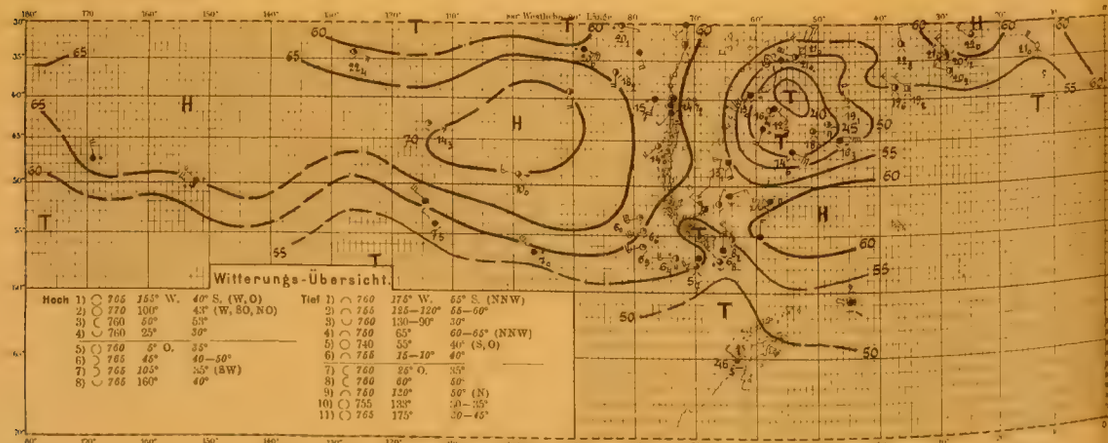
Nr. 919. 15. Februar 1904



Nr. 920. 16. Februar 1904



Nr. 921. 17. Februar 1904

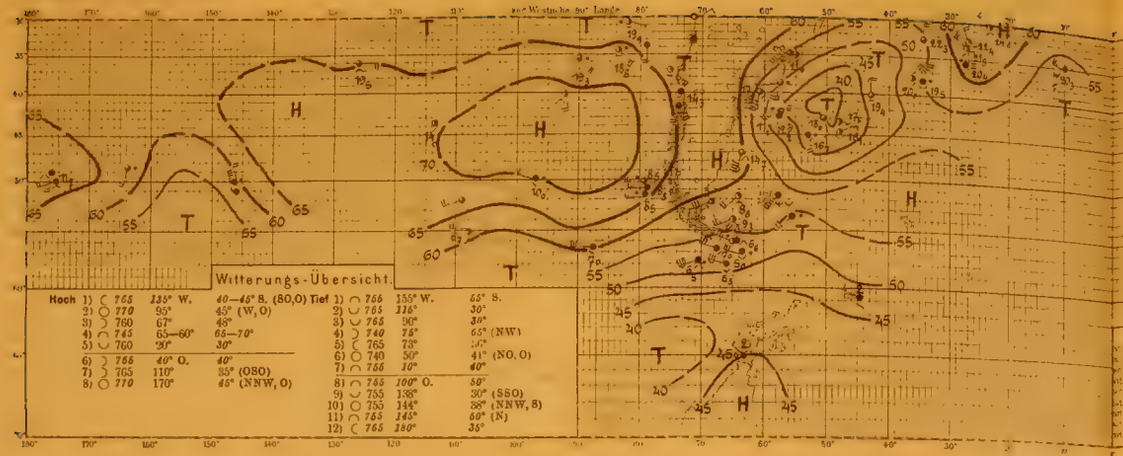


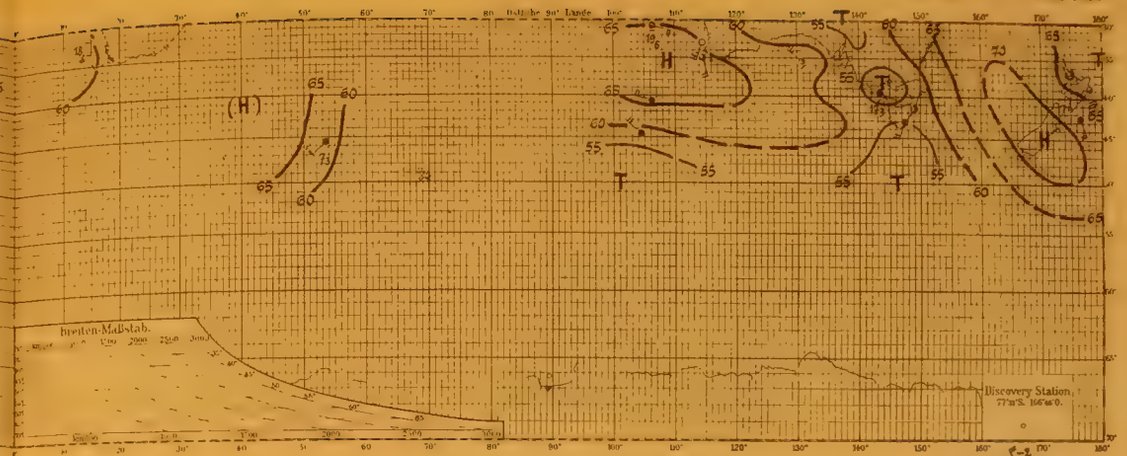
*) 15. Februar: Tief 13) 760 140° 45—50° (N)
14) 760 150° 35°

Tafel 308. *Nr. 922—924.*

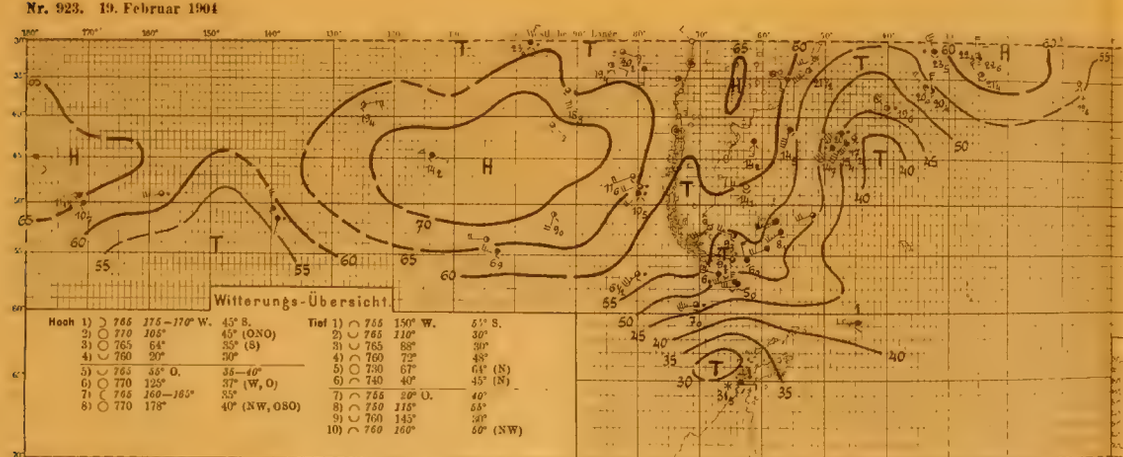
18.—20. Februar 1904.

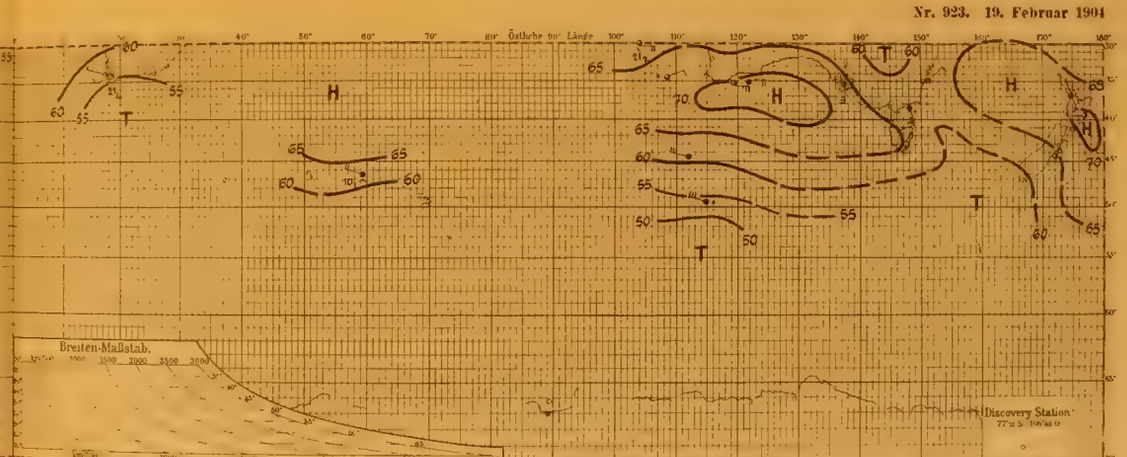
Nr. 922. 18. Februar 1904



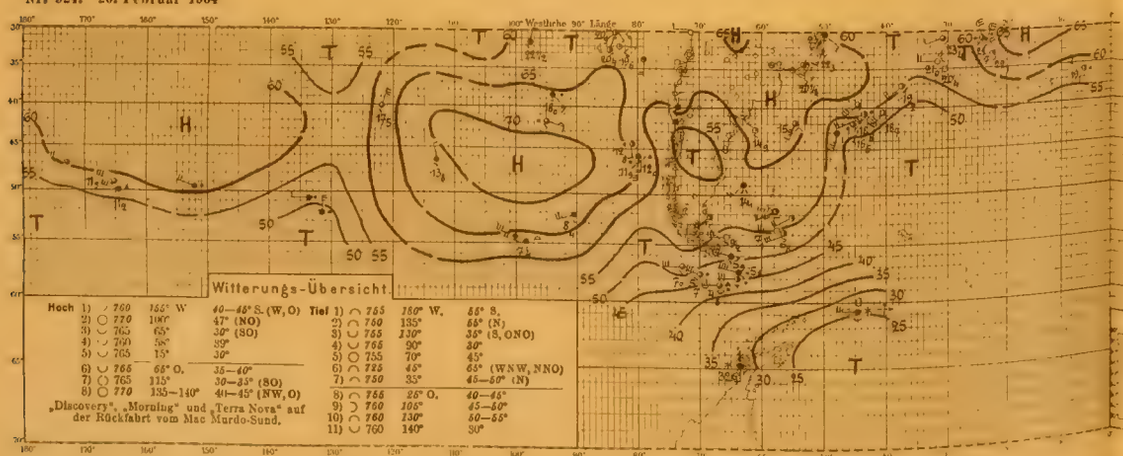


Nr. 923. 19. Februar 1904

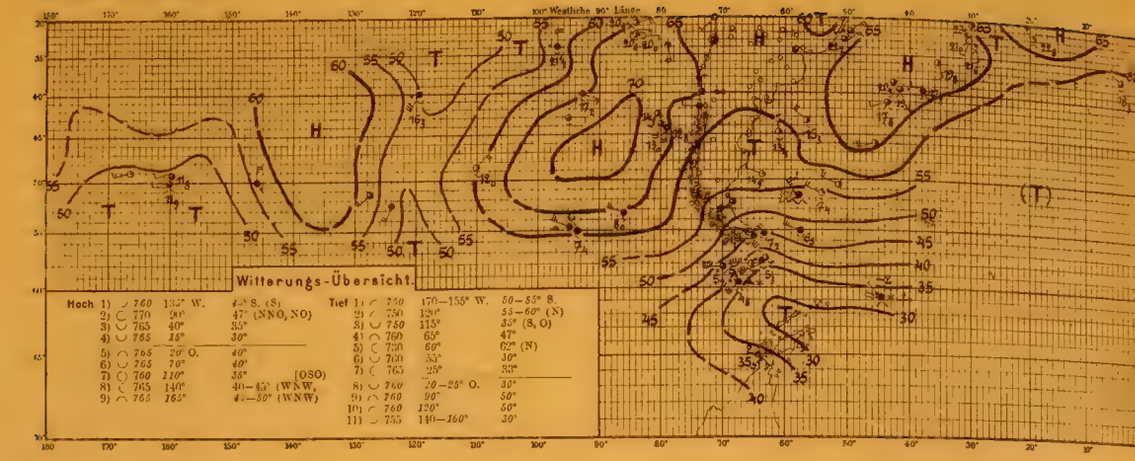


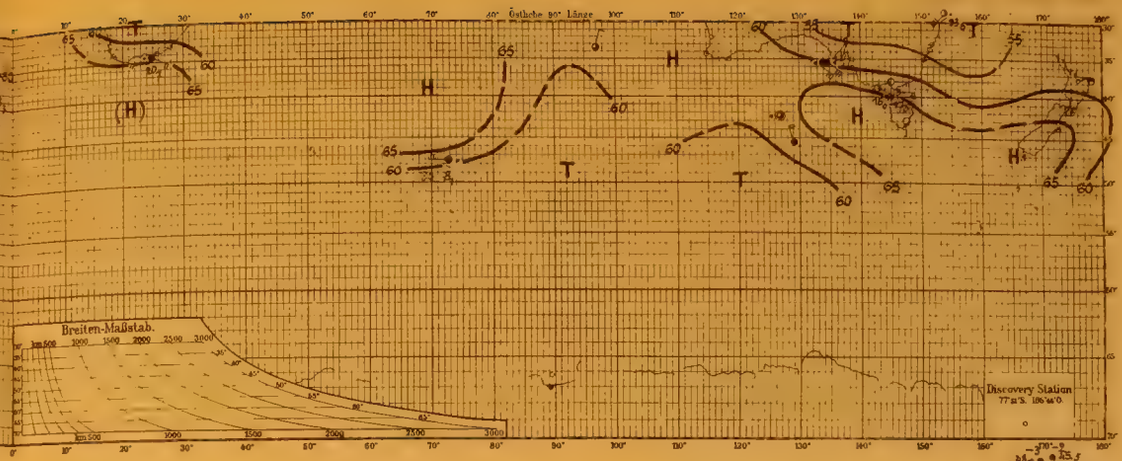


Nr. 924. 20. Februar 1904

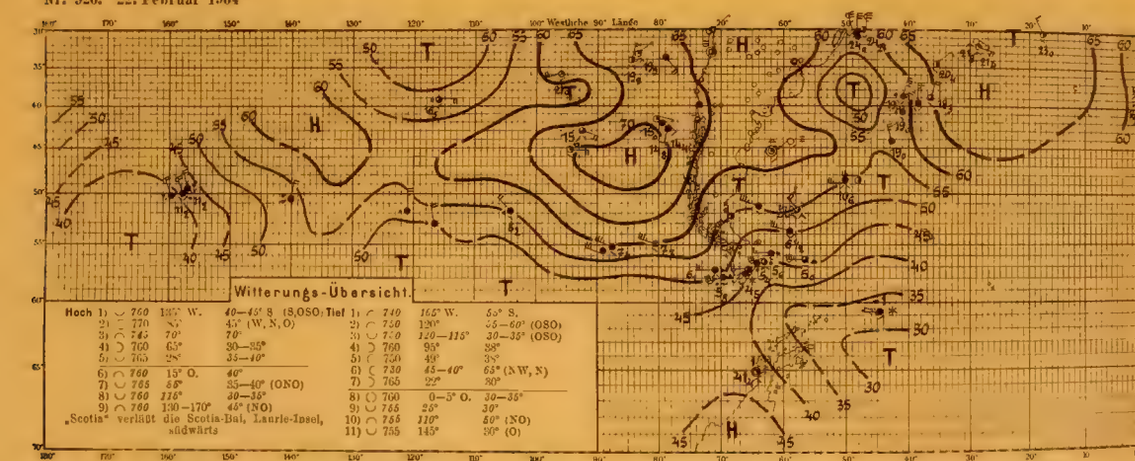


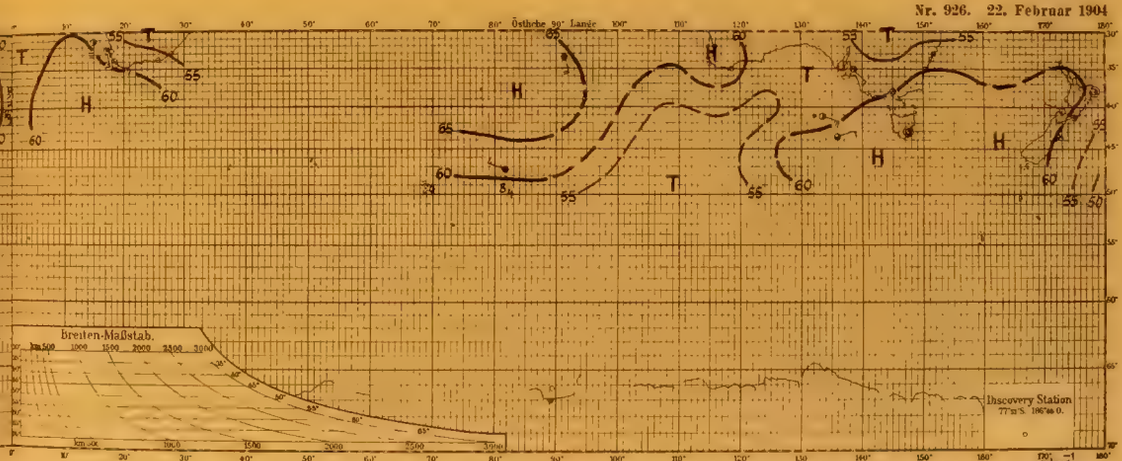
Nr. 925. 21. Februar 1904



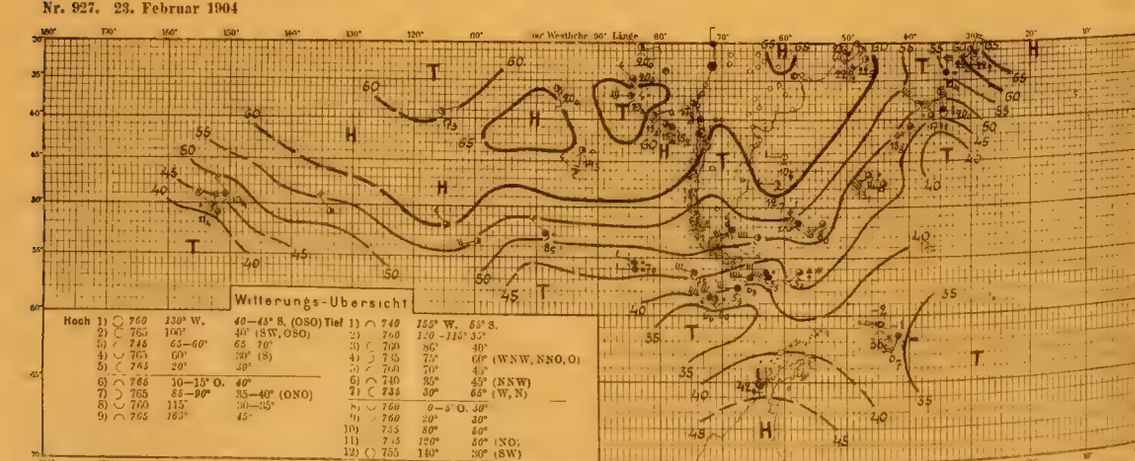


Nr. 926. 22. Februar 1904





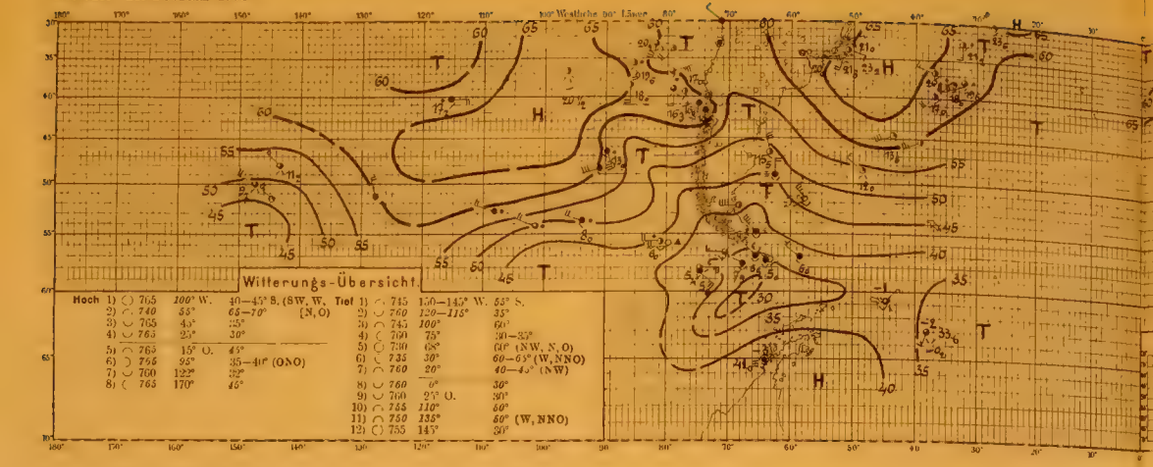
Nr. 927. 23. Februar 1904

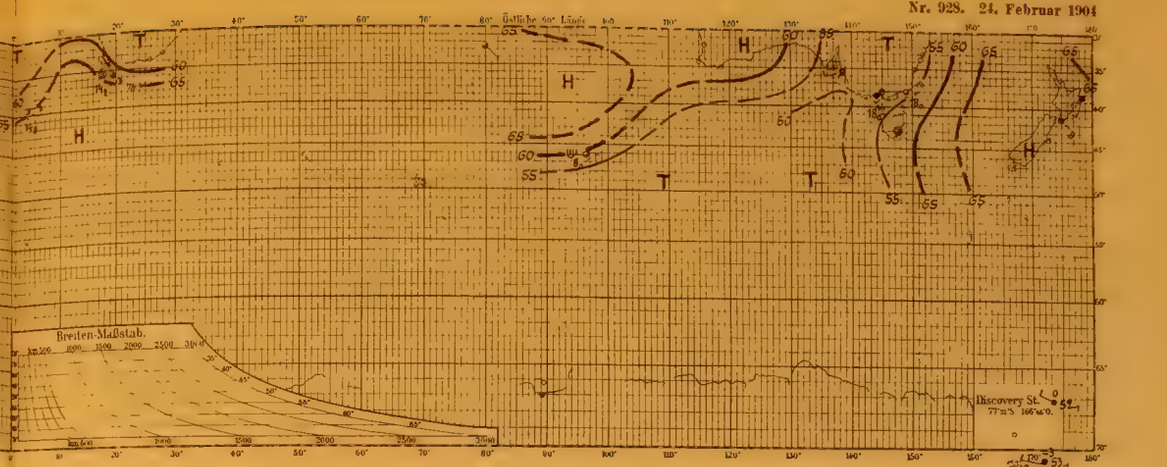


Tafel 310. *Nr. 928—930.*

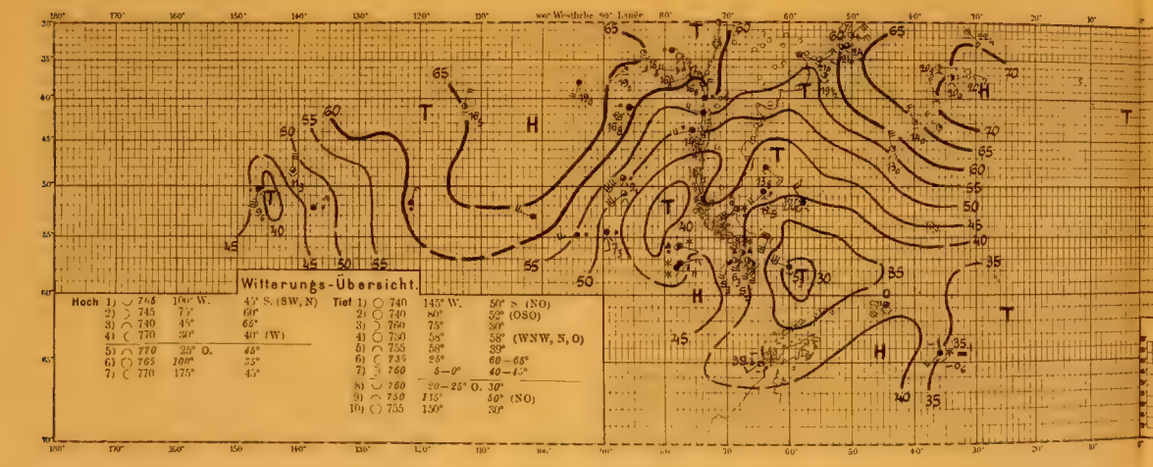
24.—26. Februar 1904.

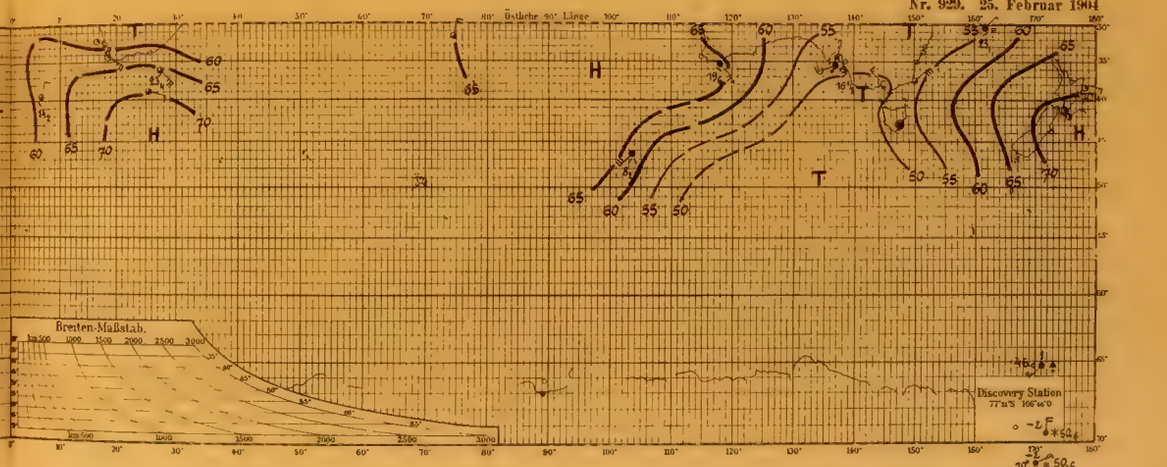
Nr. 928. 24. Februar 1904



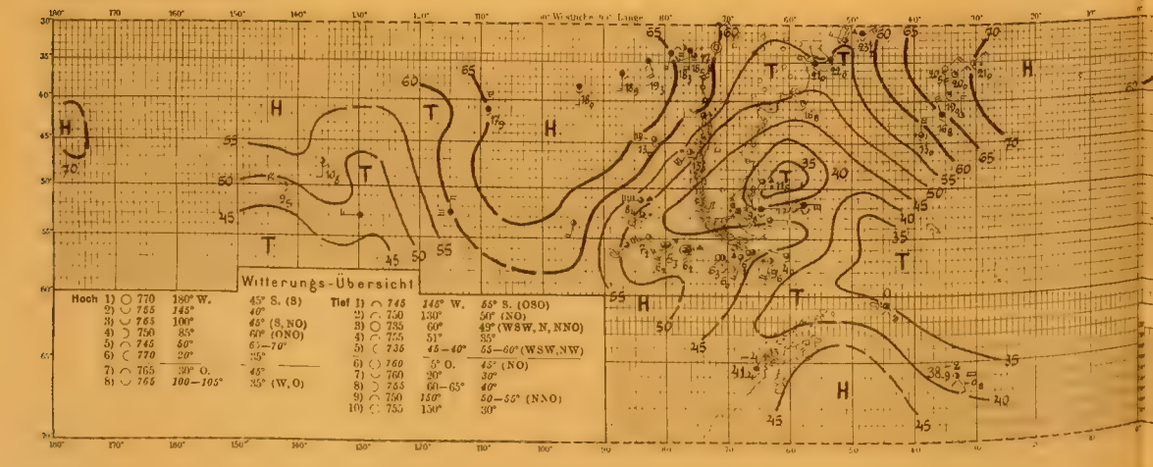


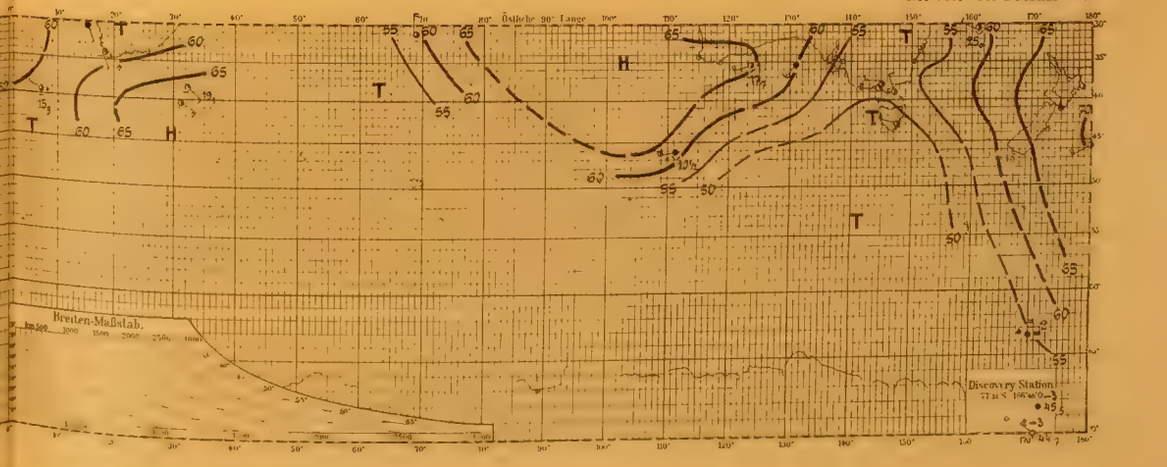
Nr. 929. 25. Februar 1904





Nr. 930. 26. Februar 1904

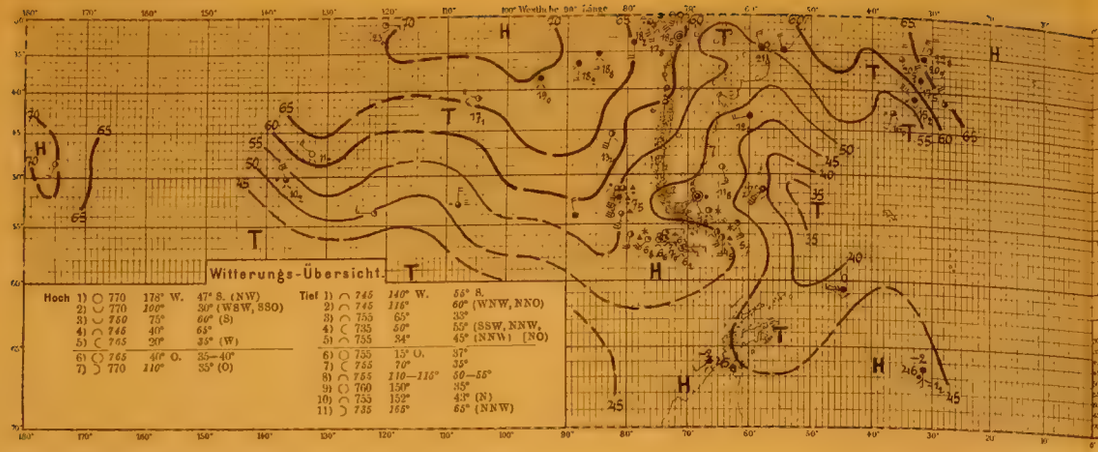


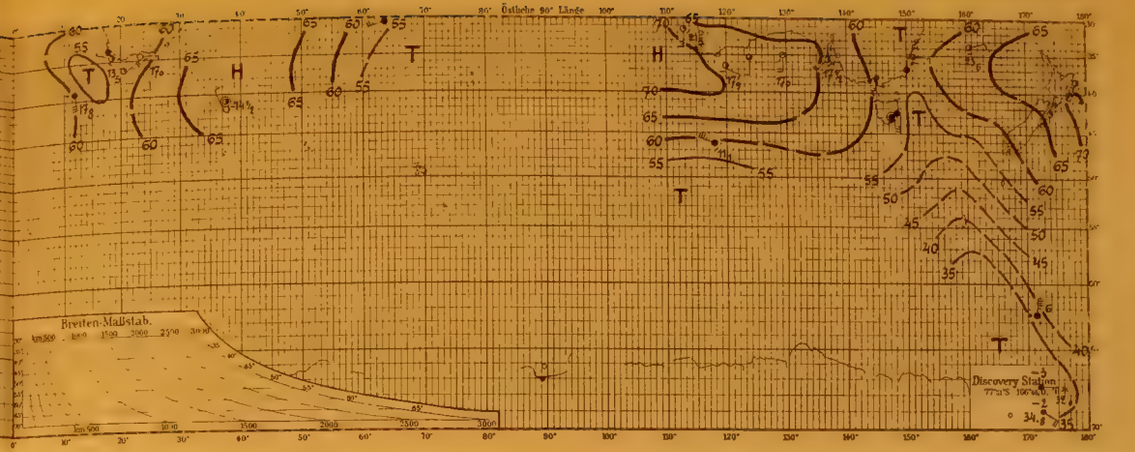


Tafel 311. *Nr. 931—933.*

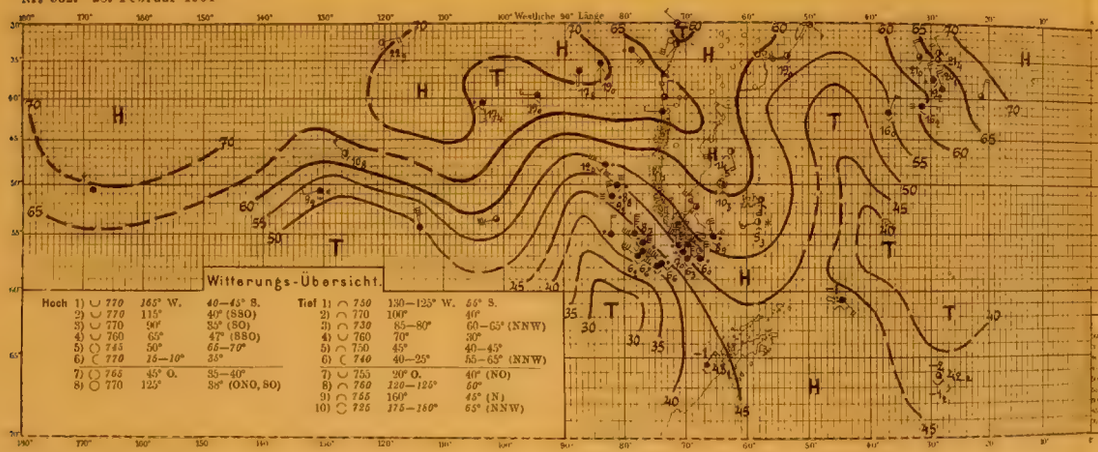
27.—29. Februar 1904.

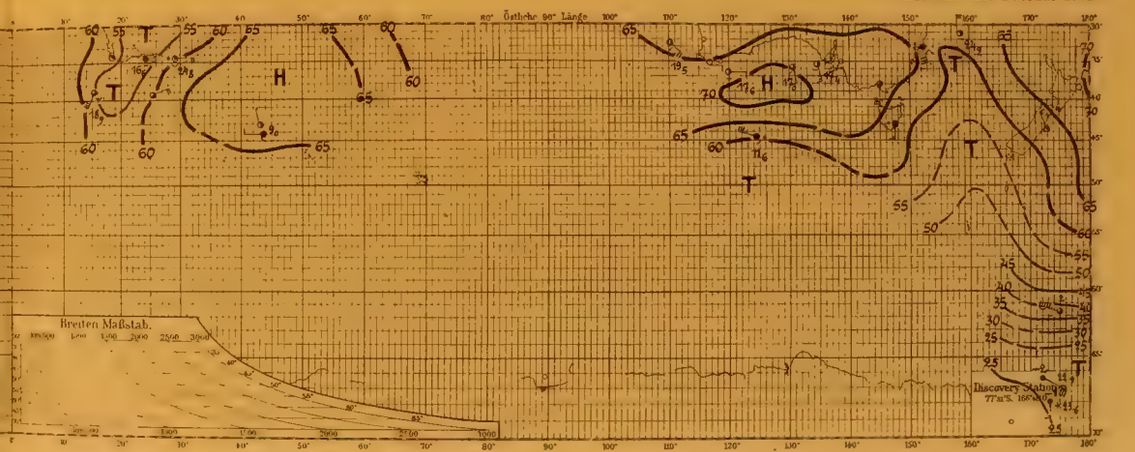
Nr. 931. 27. Februar 1904



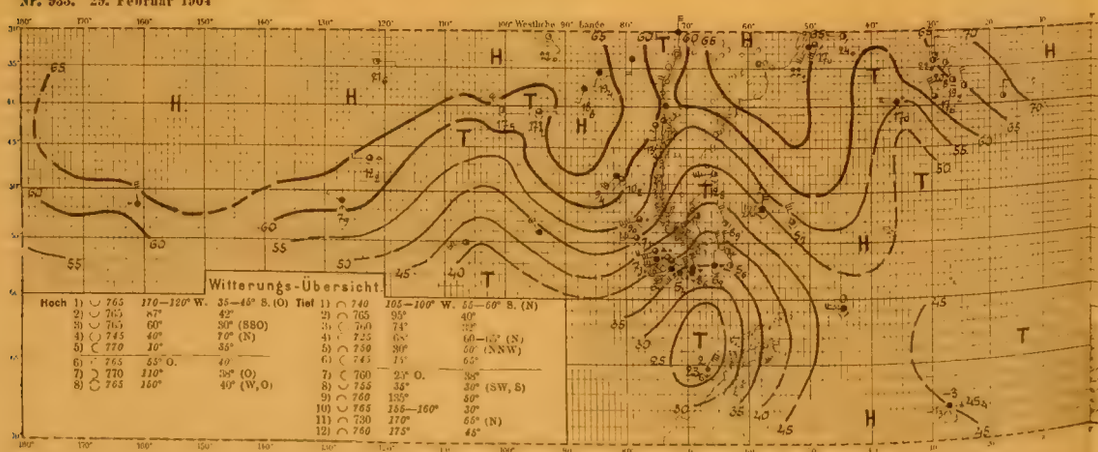


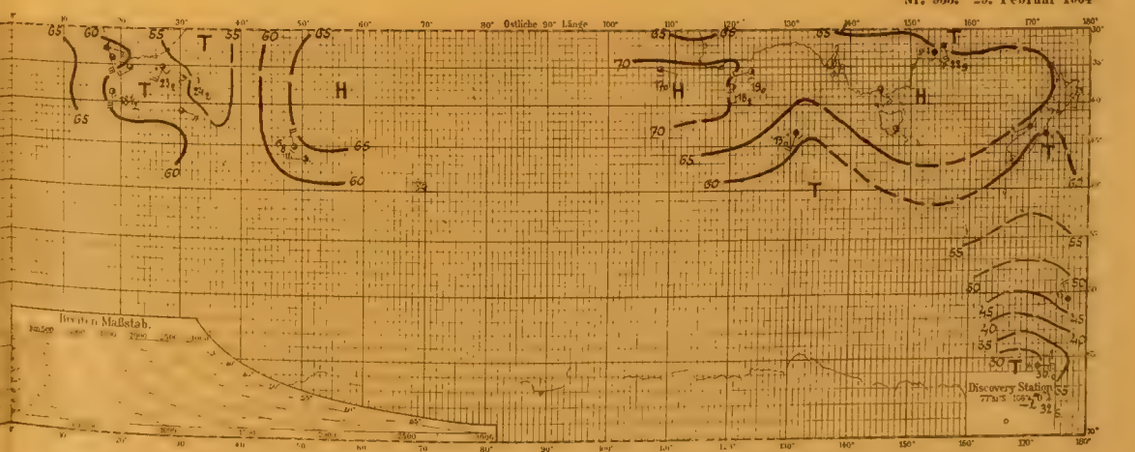
Nr. 932. 28. Februar 1904





Nr. 933. 29. Februar 1904



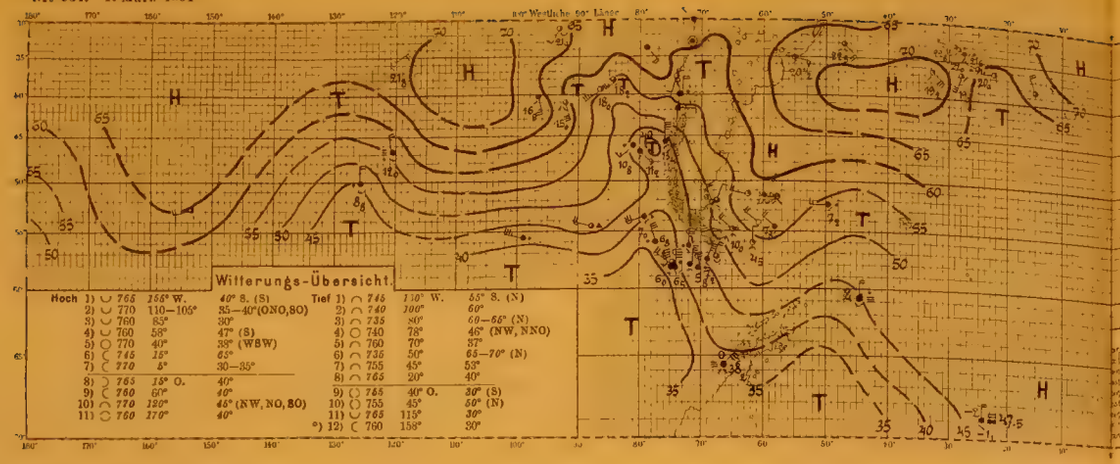


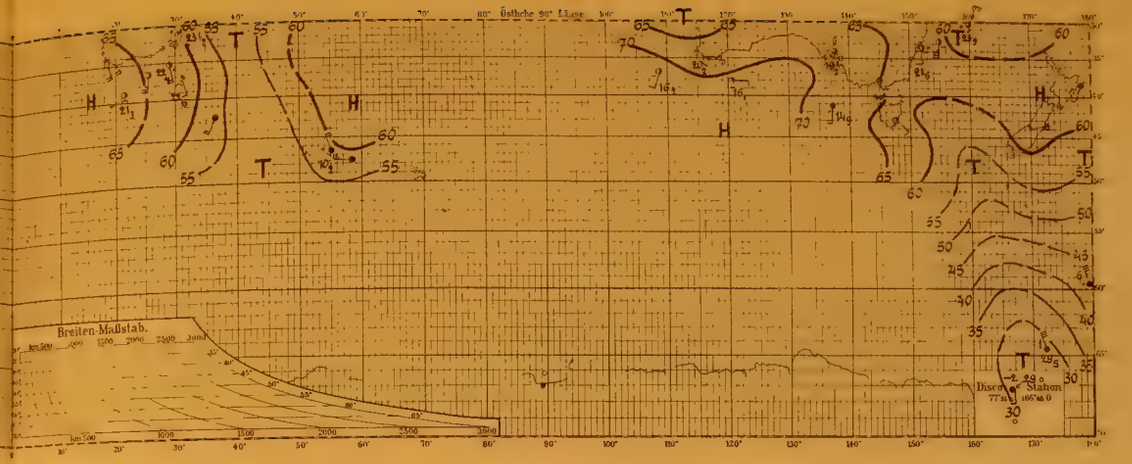
Tafel 312. *Nr. 934—936.*

1.—3. März 1904.

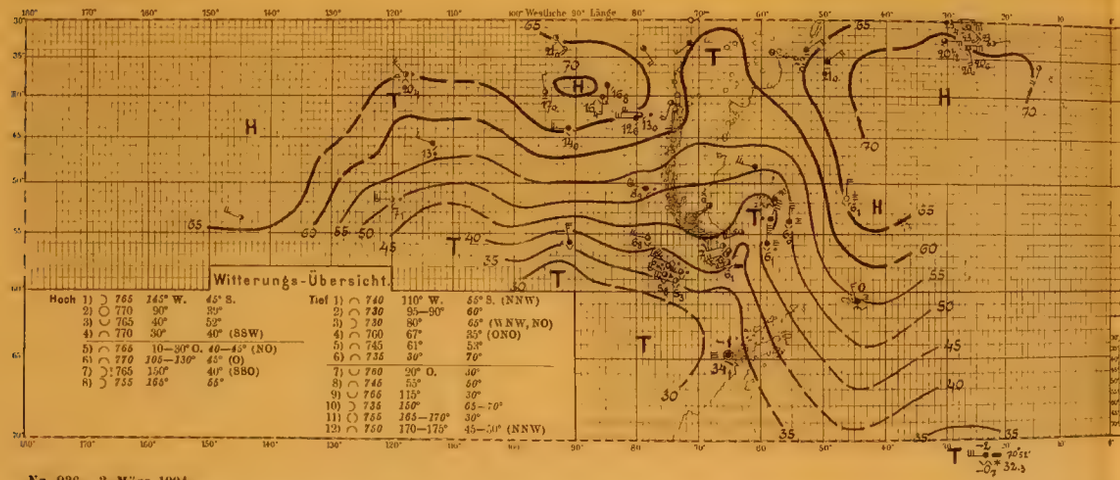
MARINE BIOLOGICAL LABORATORY
WOODS HOLE
LIBRARY
MASS.

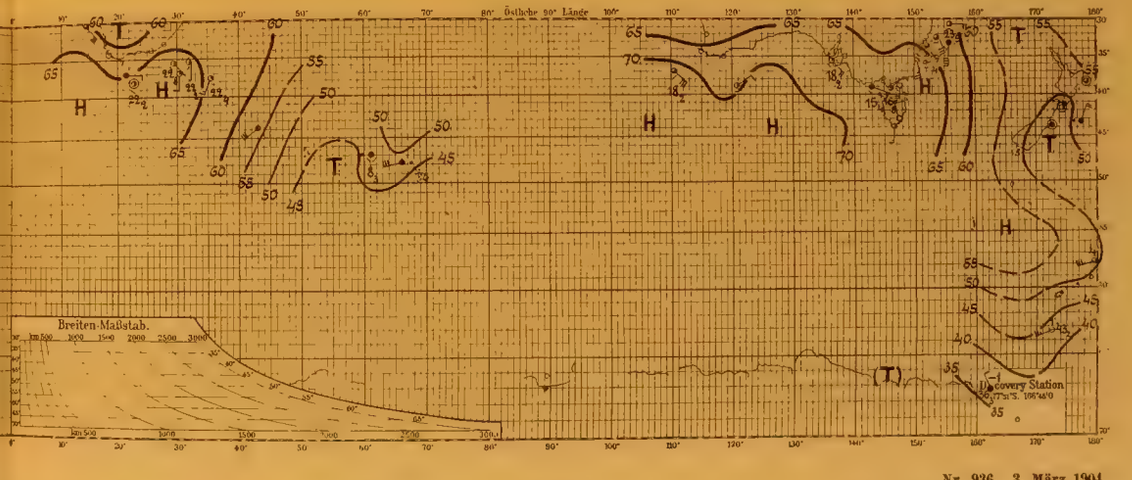
Nr. 934. 1. März 1904



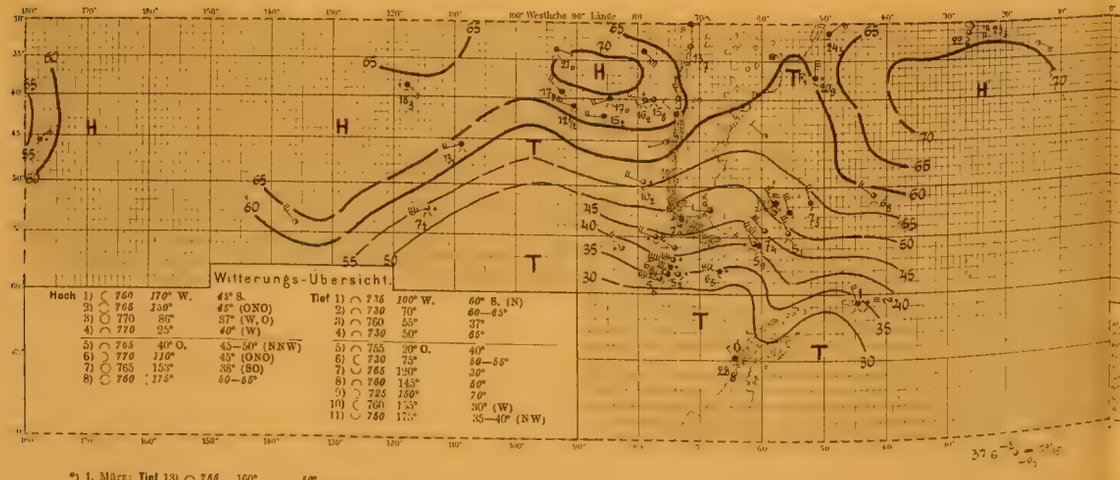


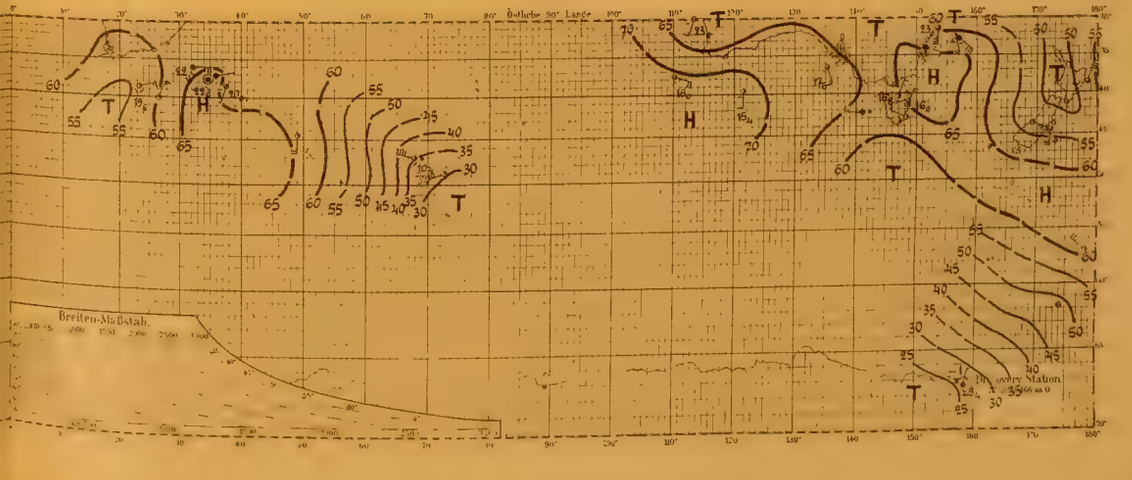
Nr. 935. 2. März 1904





Nr. 936. 3. März 1904



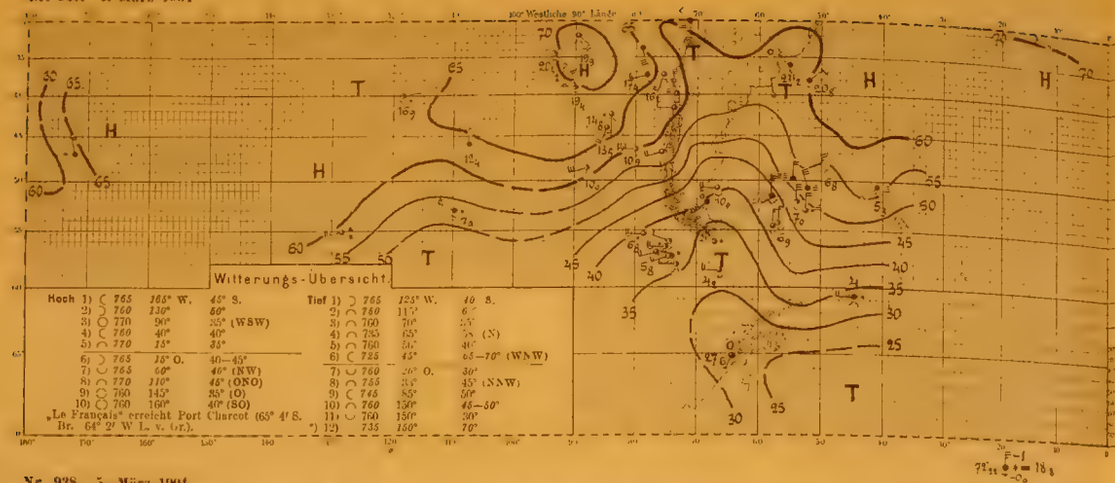


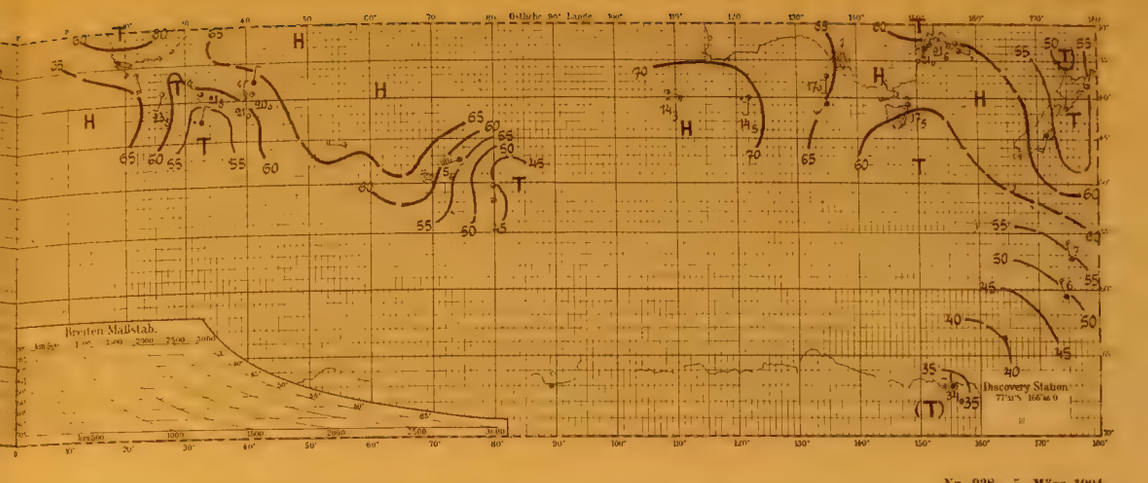
*) 1. März: Tief 13) 765 160° 80°
14) 730 170° 65° (NNW, NNO)

Tafel 313. Nr. 937–939.

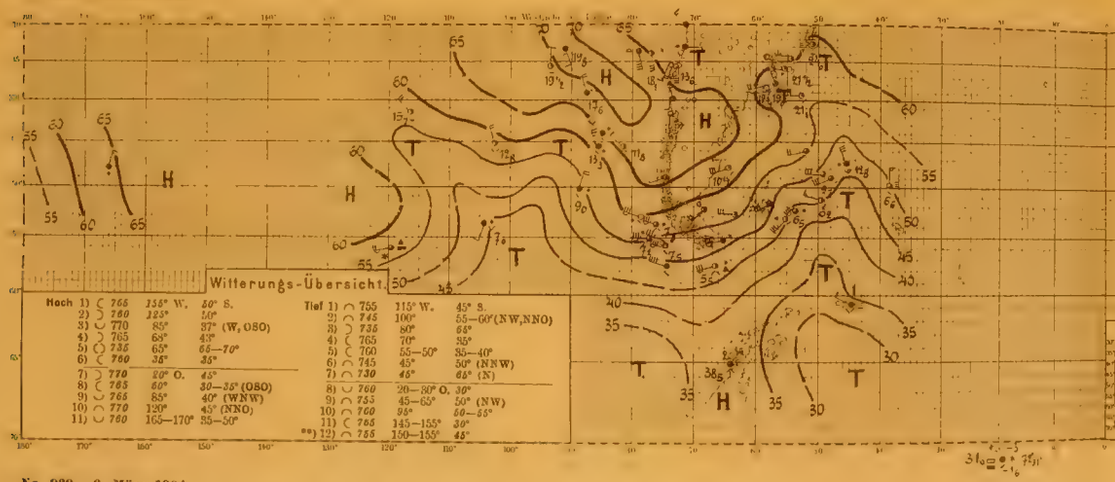
4.—6. März 1904.

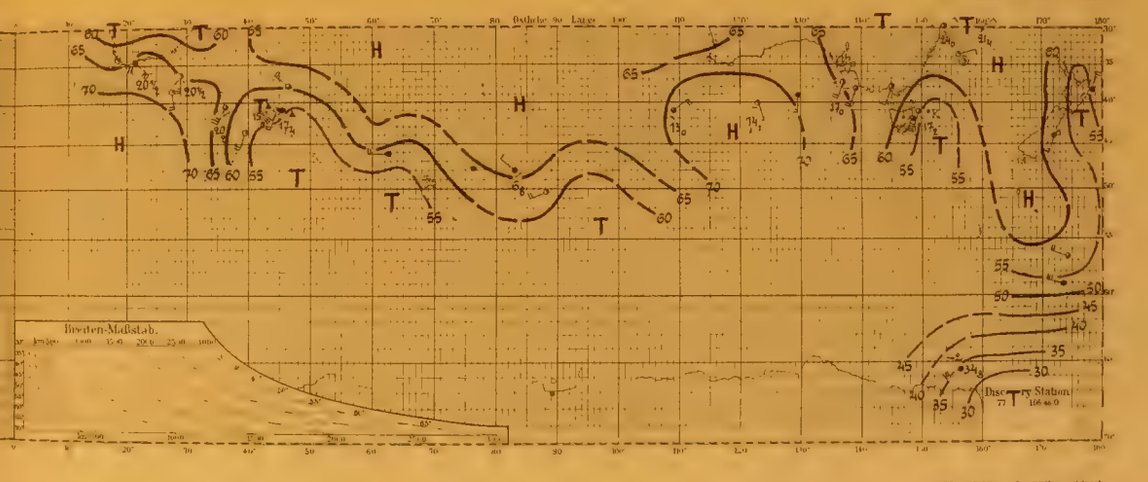
Nr. 937. 4. März 1904



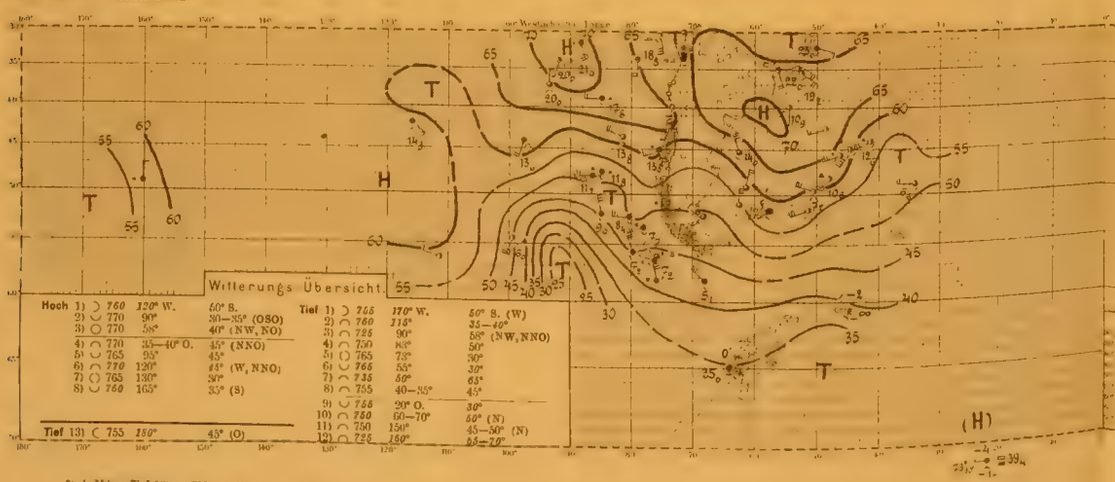


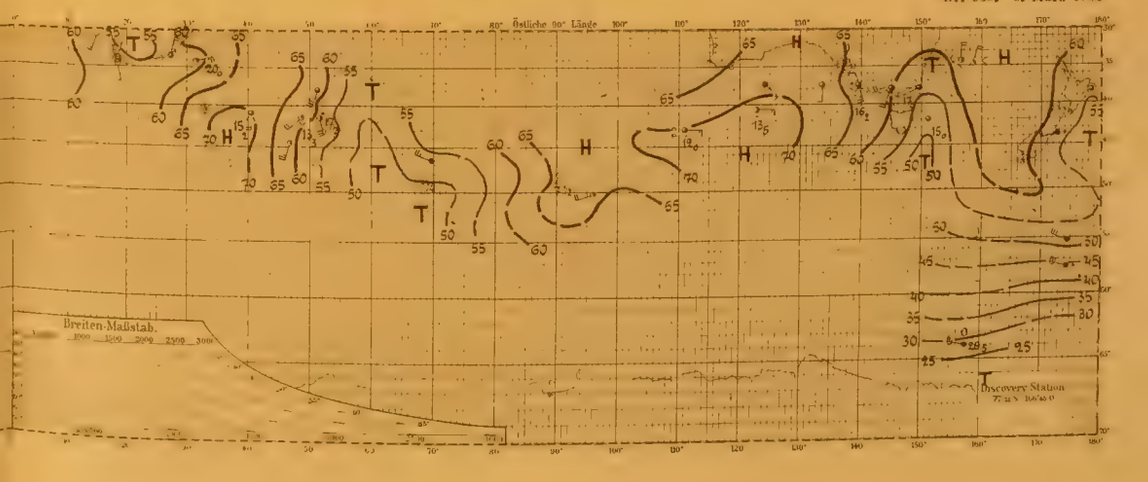
Nr. 938. 5. März 1904



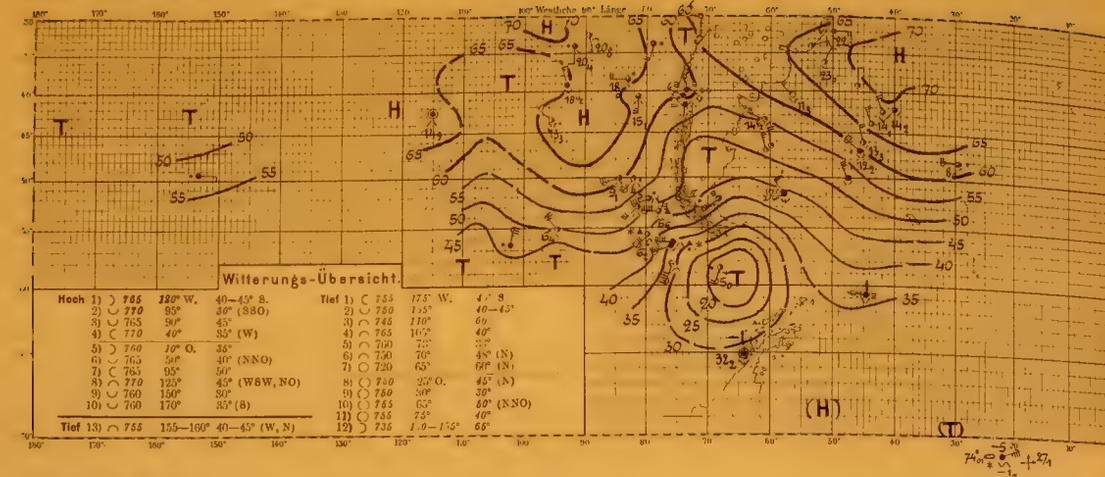


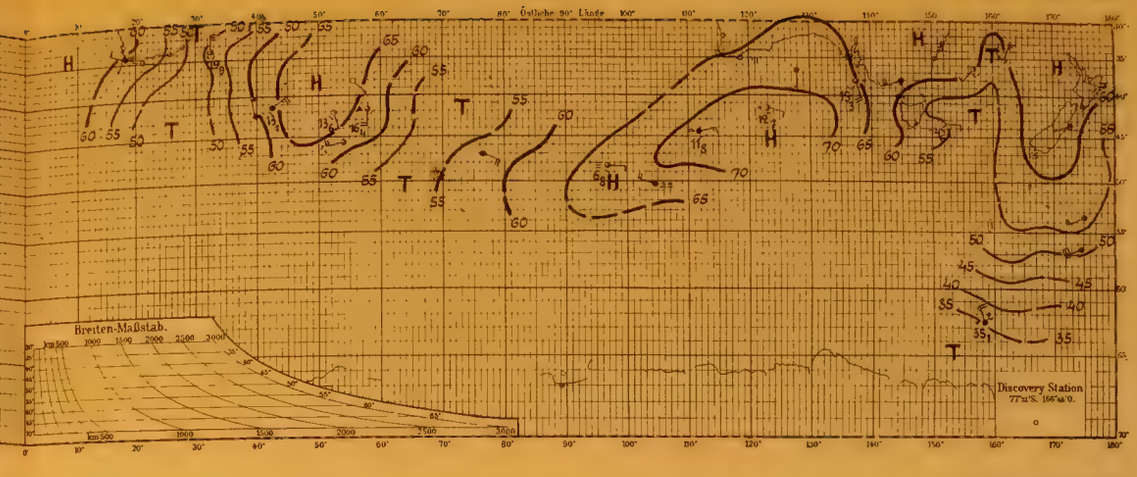
Nr. 939. 6. März 1904



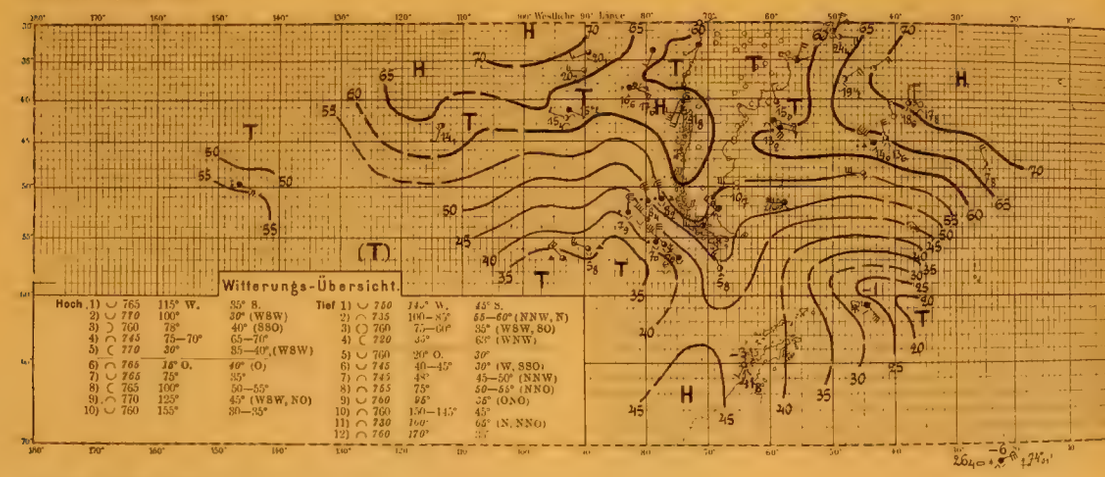


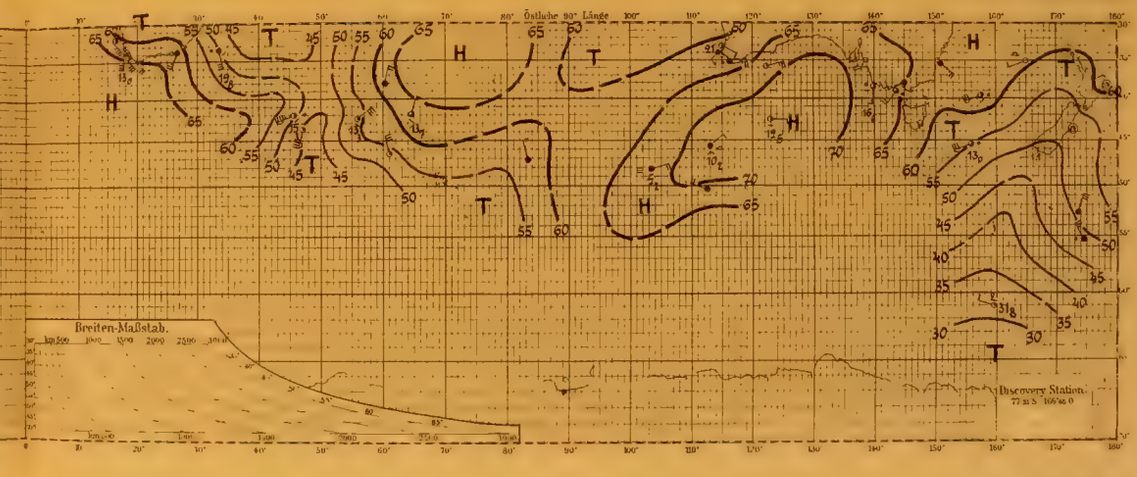
Nr. 940. 7. März 1904



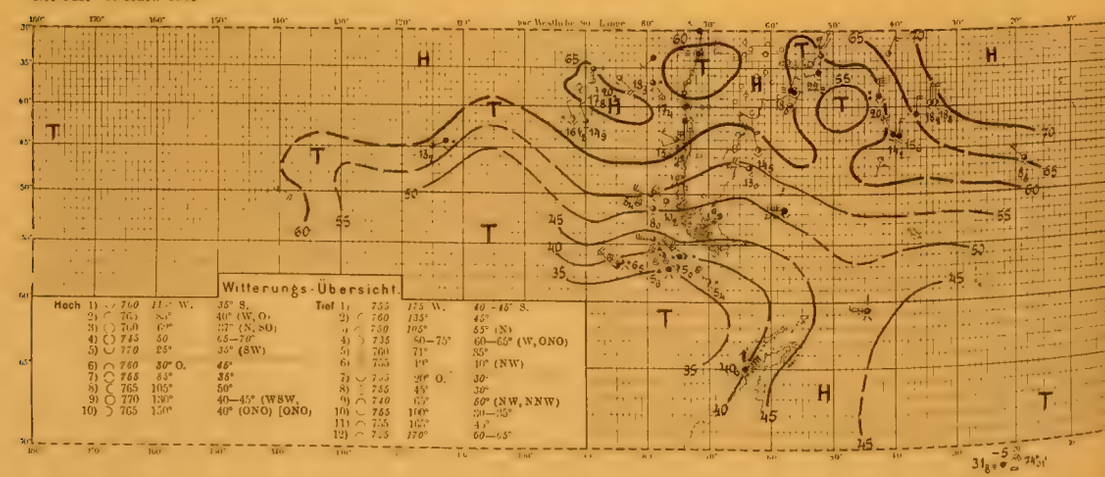


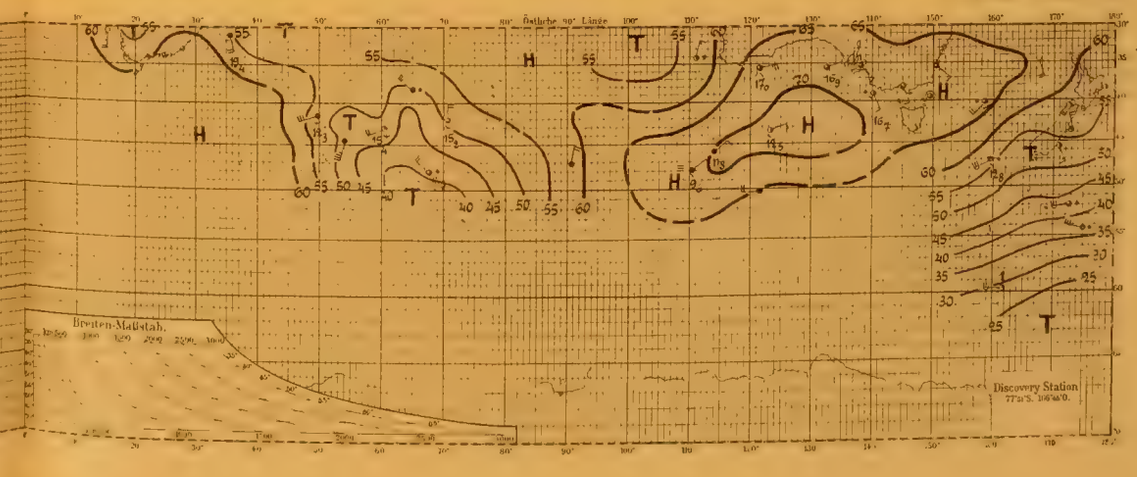
Nr. 941. 8. März 1904





Nr. 942. 9. März 1904

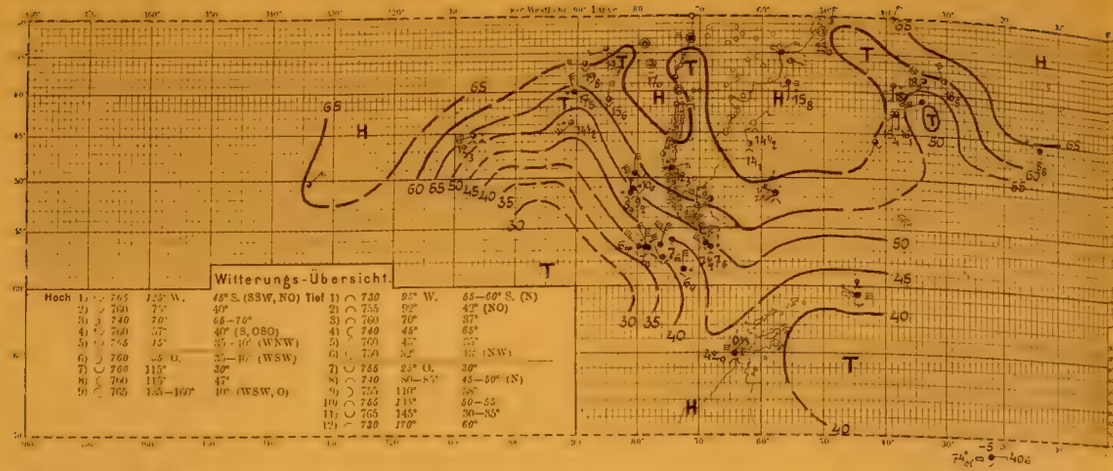




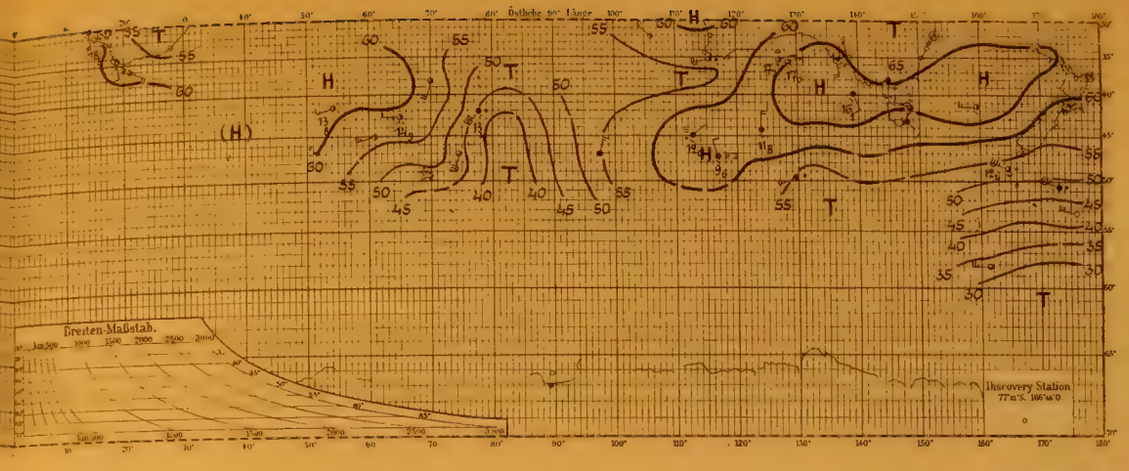
Tafel 315. *Nr. 943—945.*

10.—12. März 1904.

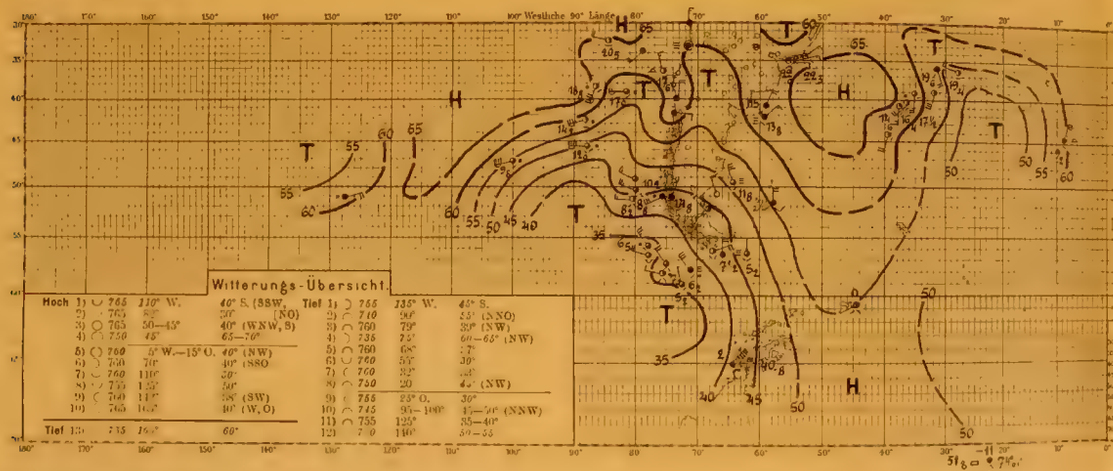
Nr. 943. 10. März 1904



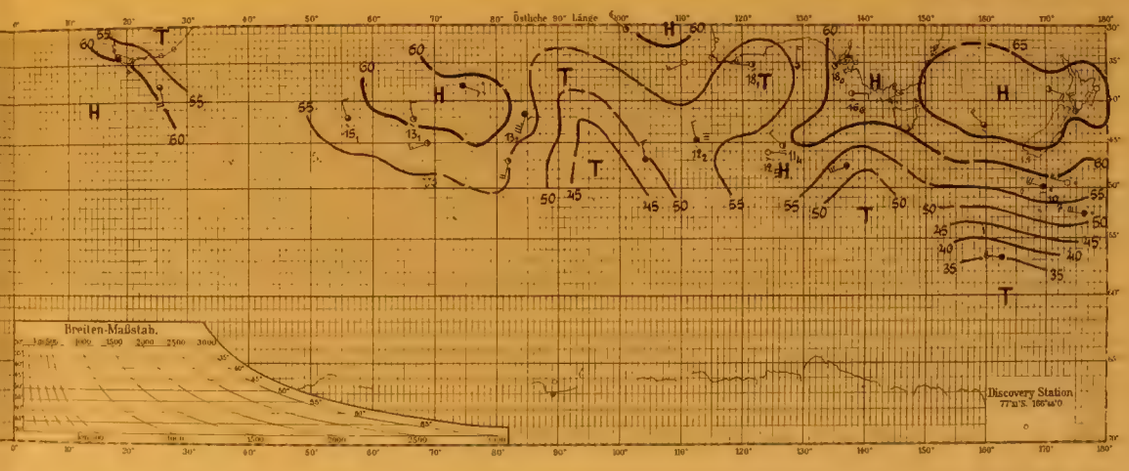
Nr. 943. 10. März 1904



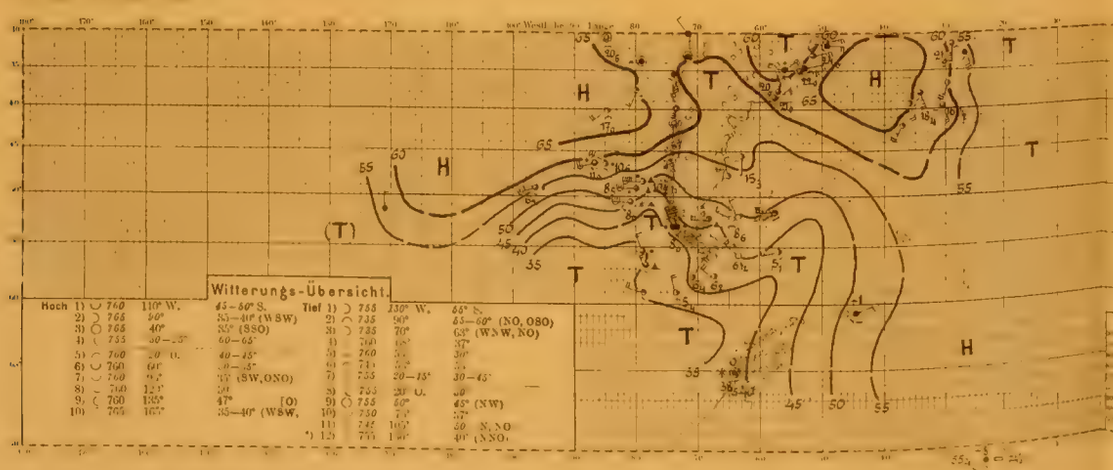
Nr. 944. 11. März 1904



Nr. 944. 11. März 1904



Nr. 945. 12. März 1904



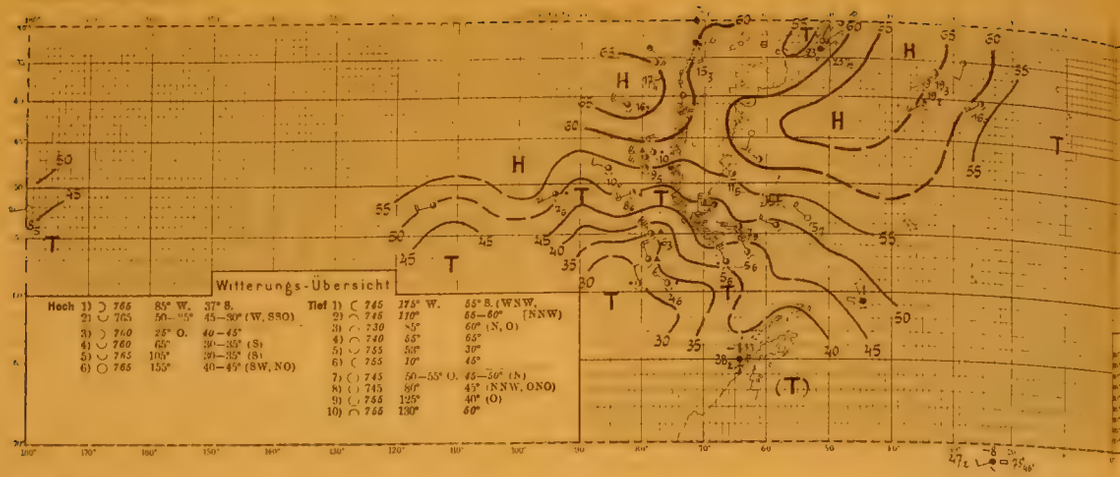
Nr. 945. 12. März 1904

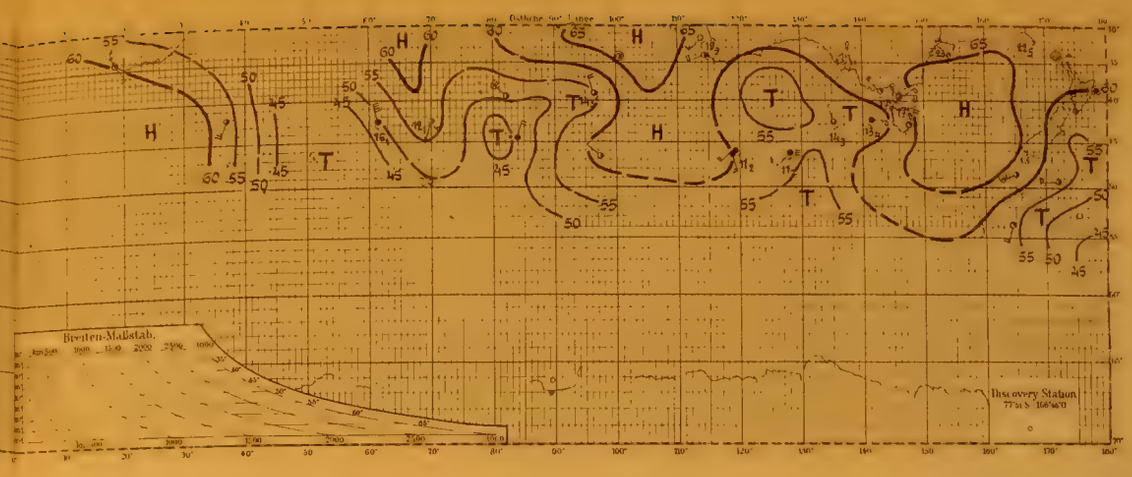
*) 12. März: Tief 13) 755 150° 50—55°
14) 736 170° 60° (N)

Tafel 316. Nr. 946—948.

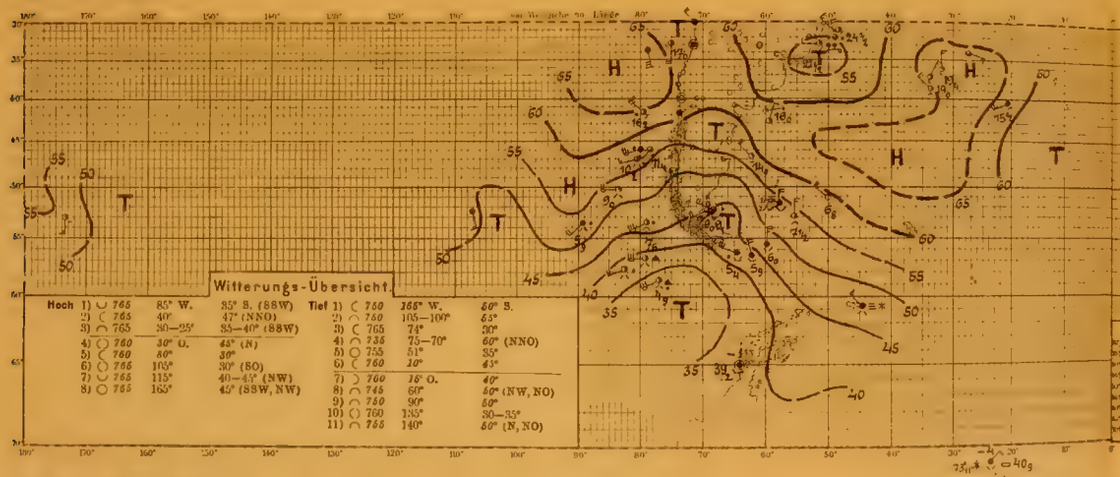
13.—15. März 1904.

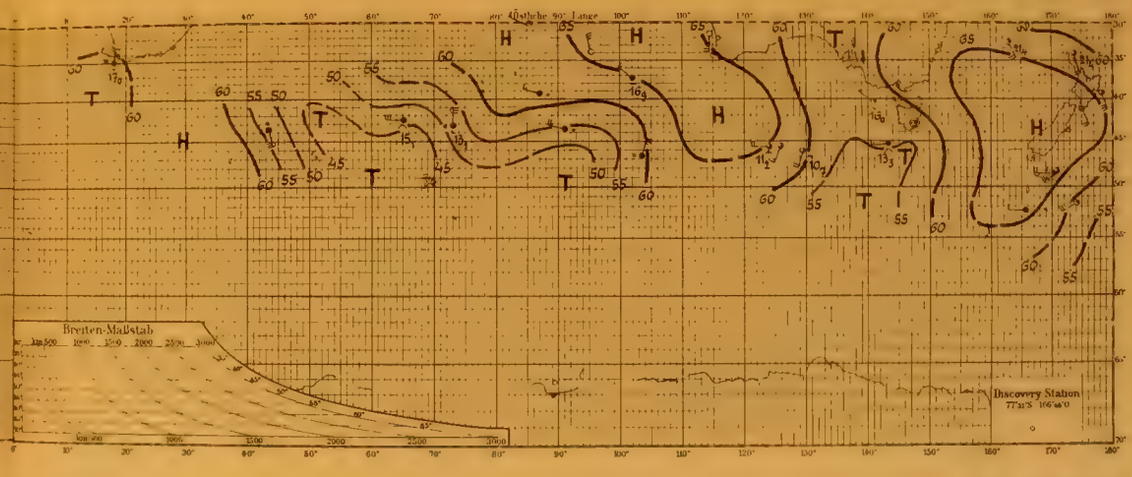
Nr. 946. 13. März 1904



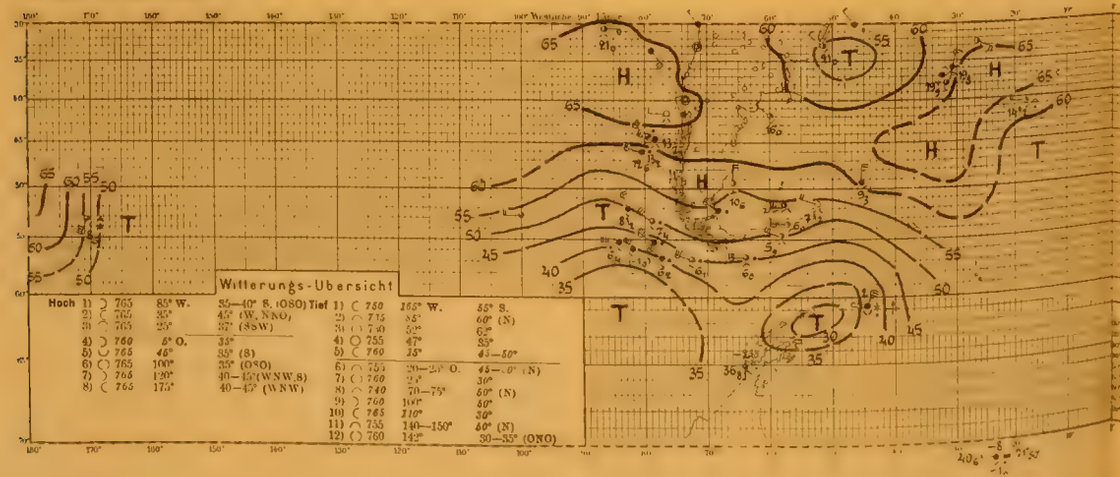


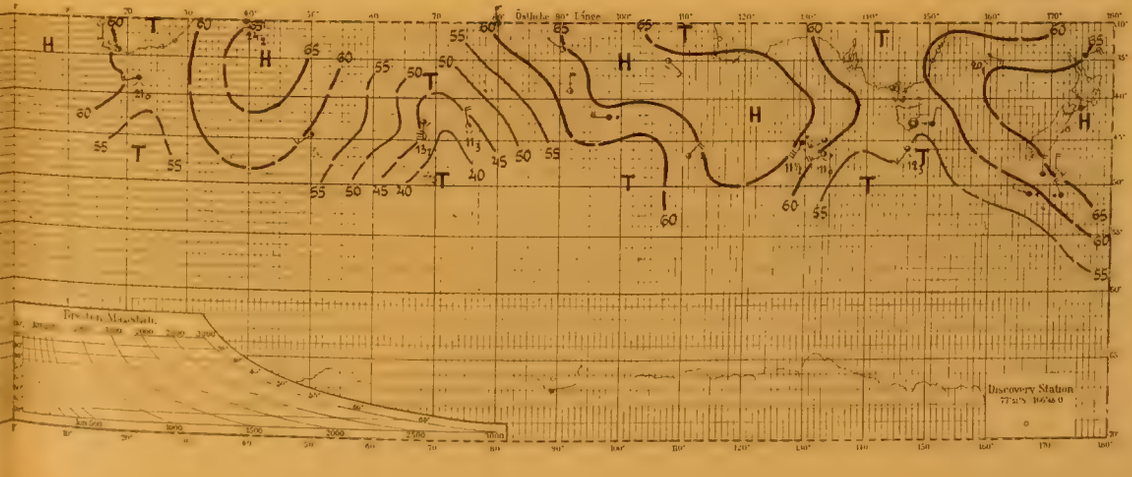
Nr. 947. 14. März 1904





Nr. 948. 15. März 1904



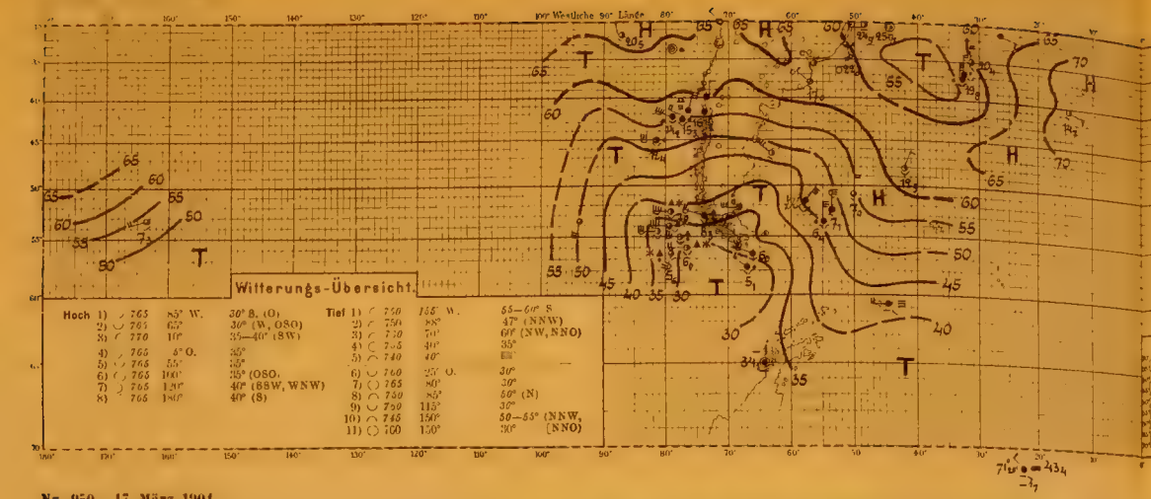


Tafel 317. *Nr. 949—951.*

16.—18. März 1904.

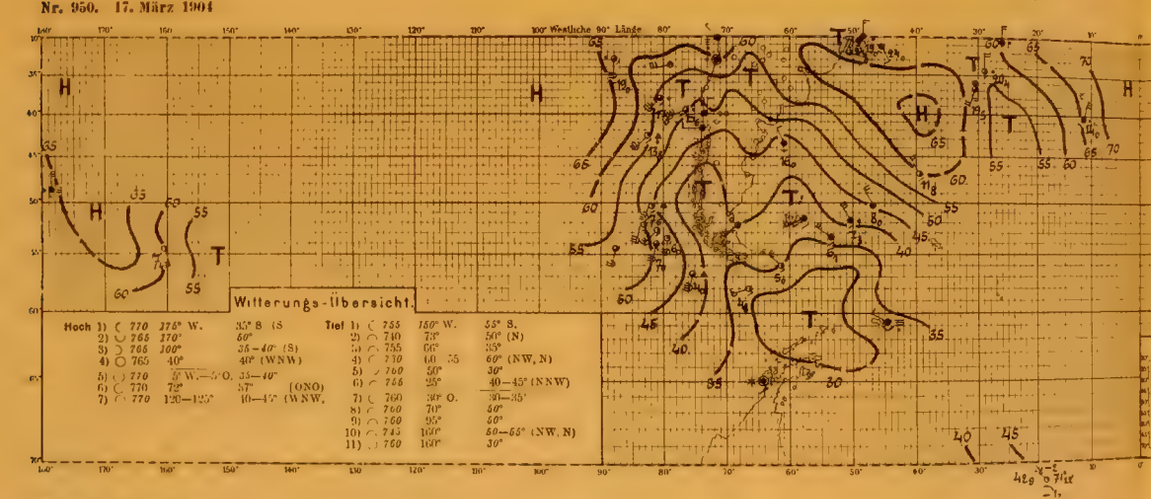
MARINE BIOLOGICAL LABORATORY
WOODS HOLE
LIBRARY

Nr. 949. 16. März 1904



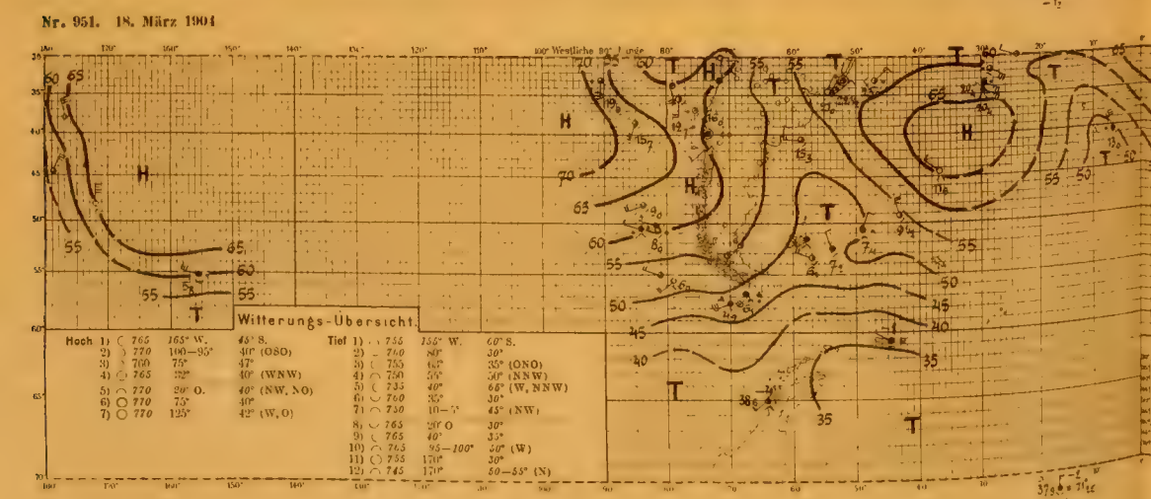
Nr. 949. 16. März 1904

Nr. 950. 17. März 1904



Nr. 950. 17. März 1904

Nr. 951. 18. März 1904

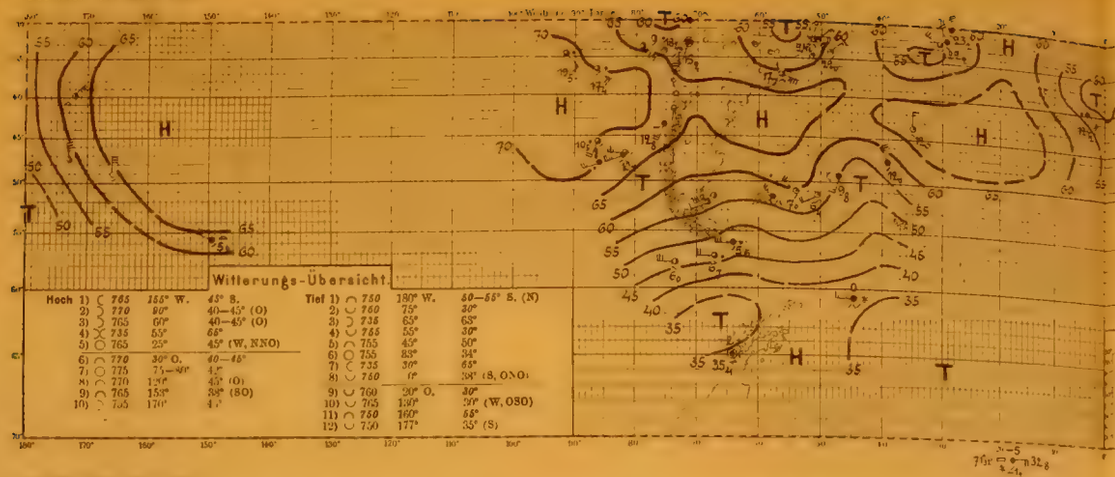


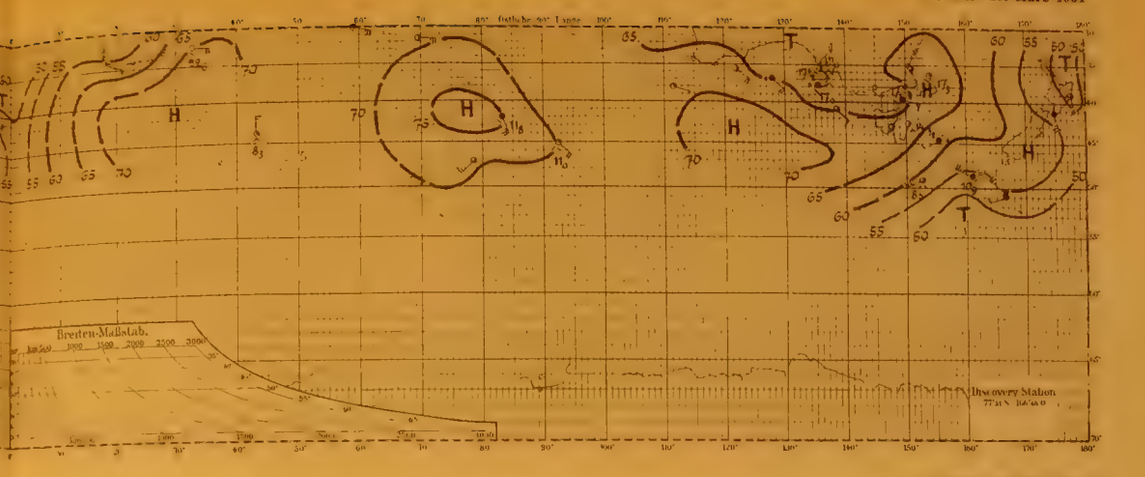
Nr. 951. 18. März 1904

Tafel 318. *Nr. 952—954.*

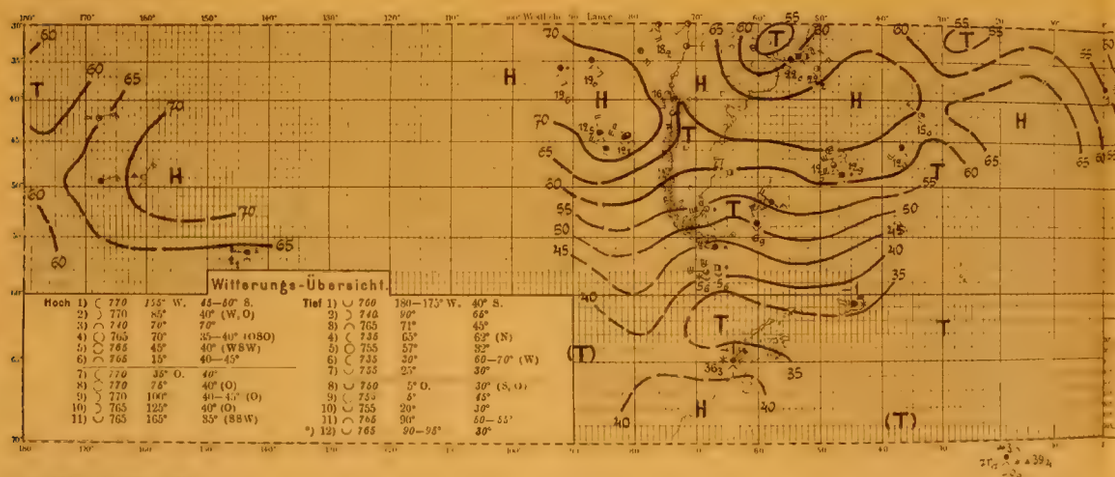
19.—21. März 1904.

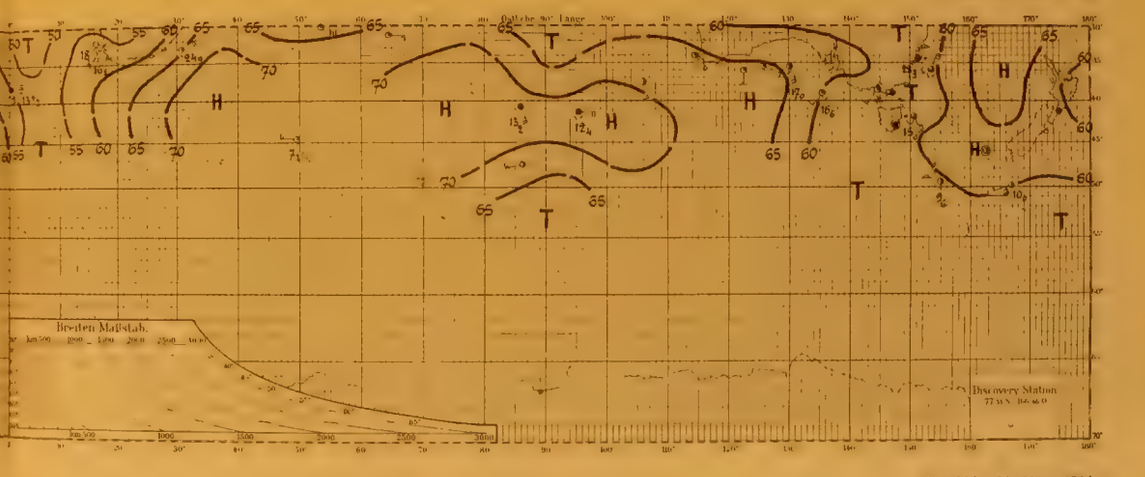
Nr. 952. 19. März 1904



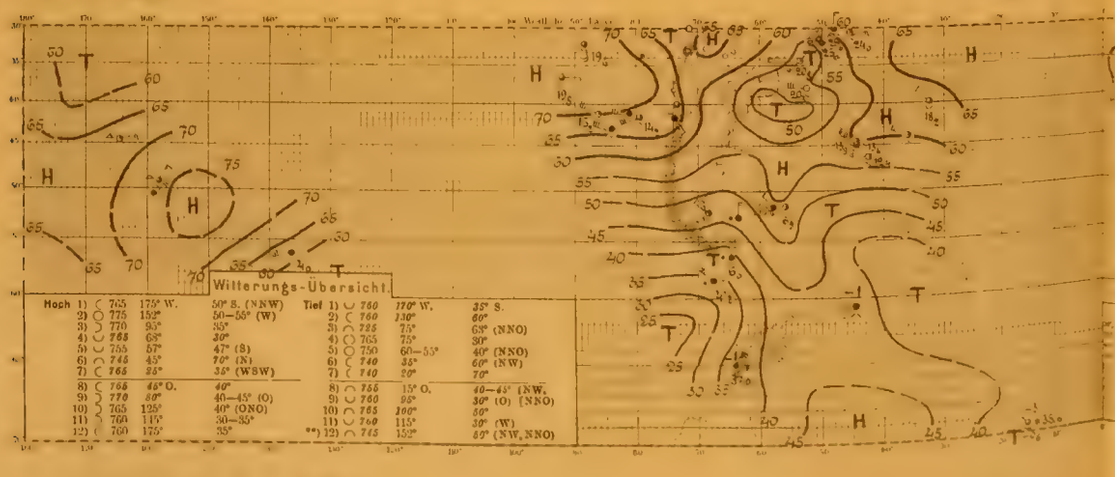


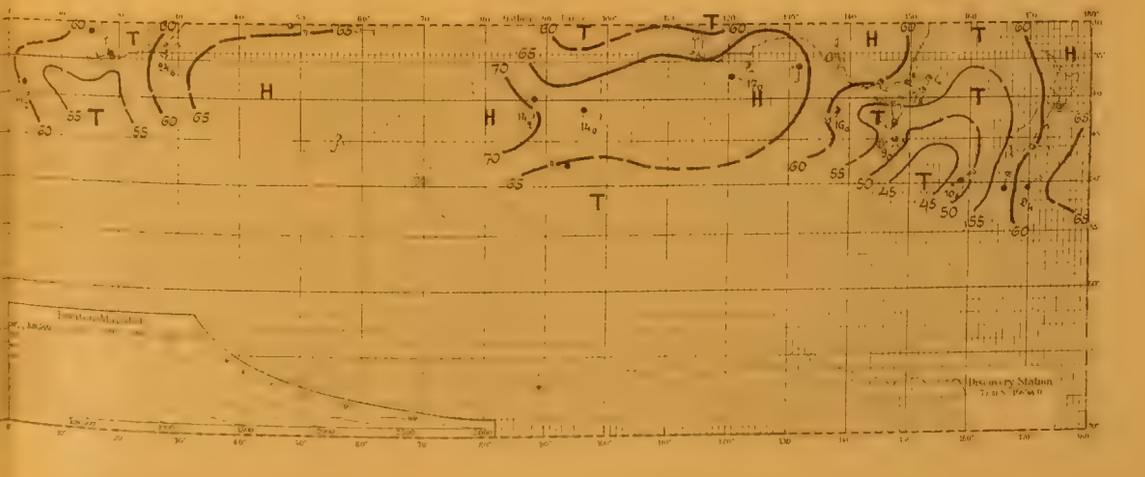
Nr. 953. 20. März 1904





Nr. 954. 21. März 1904



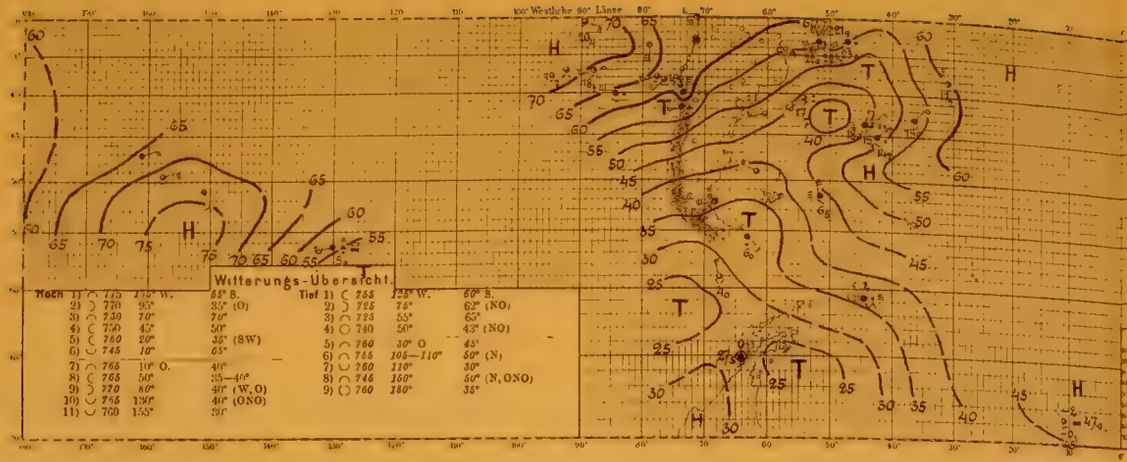


*) 20. März: Tief 13) 760 140° 60° (NNO)
14) 760 150° 30° (S)
15) 760 175° 60—55°
**) 21. März: Tief 13) 760 160° 30°

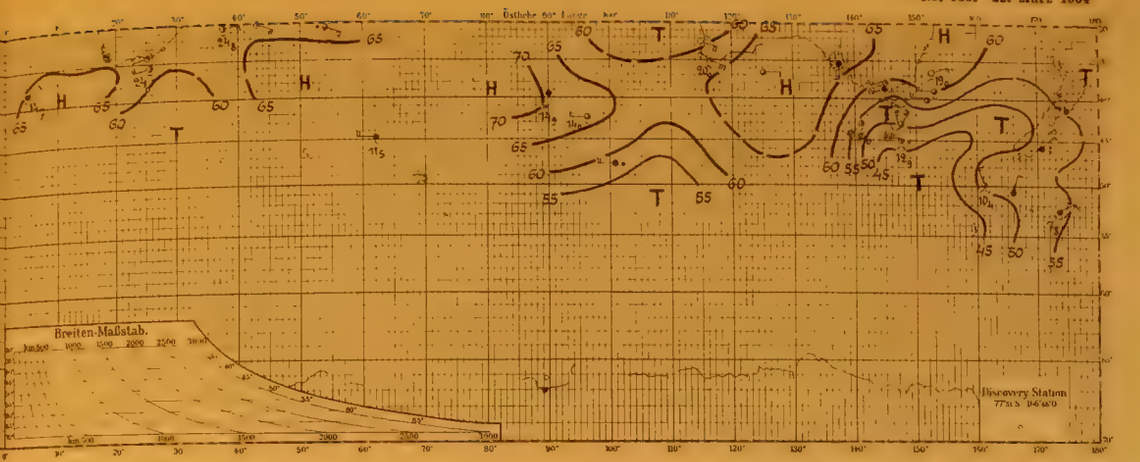
Tafel 319. *Nr. 955—957.*

22.—24. März 1904.

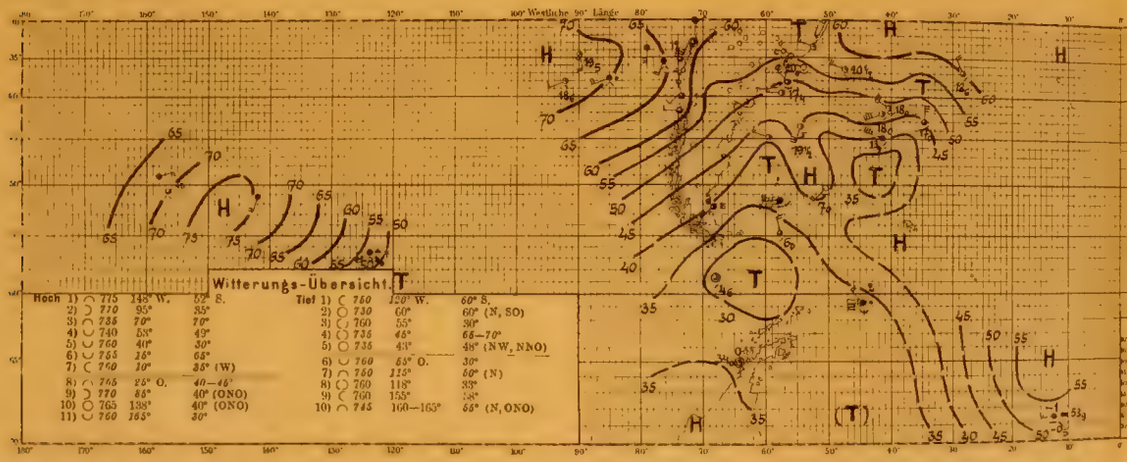
Nr. 955. 22. März 1904



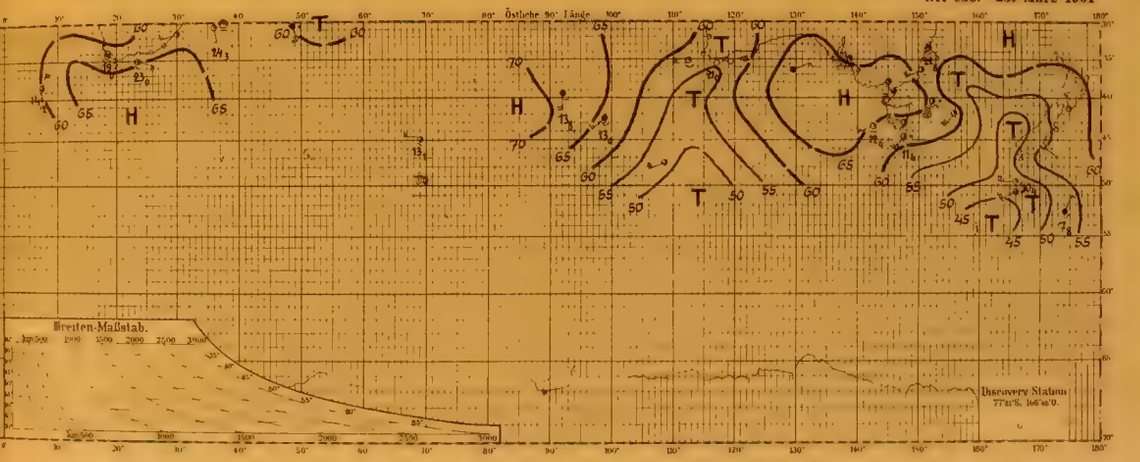
Nr. 955. 22. März 1904



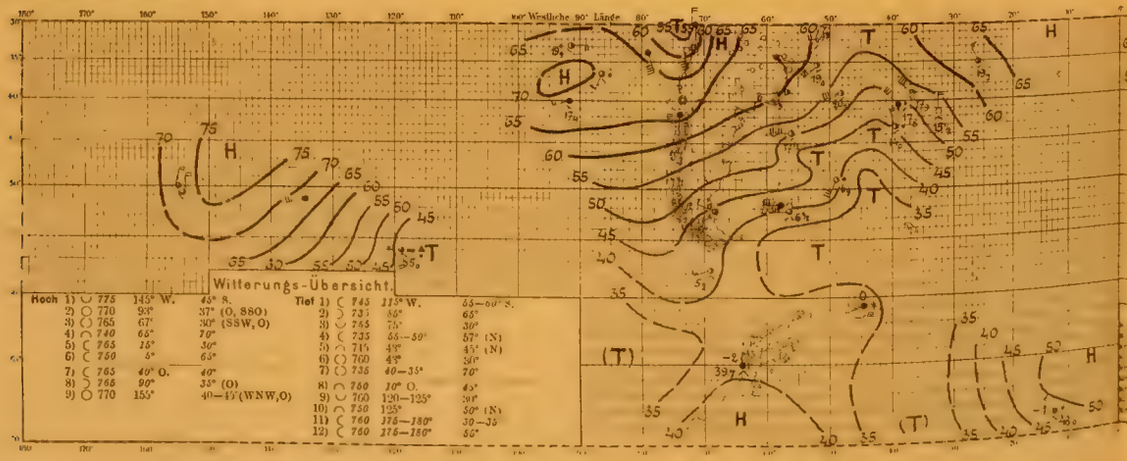
Nr. 956. 23. März 1904



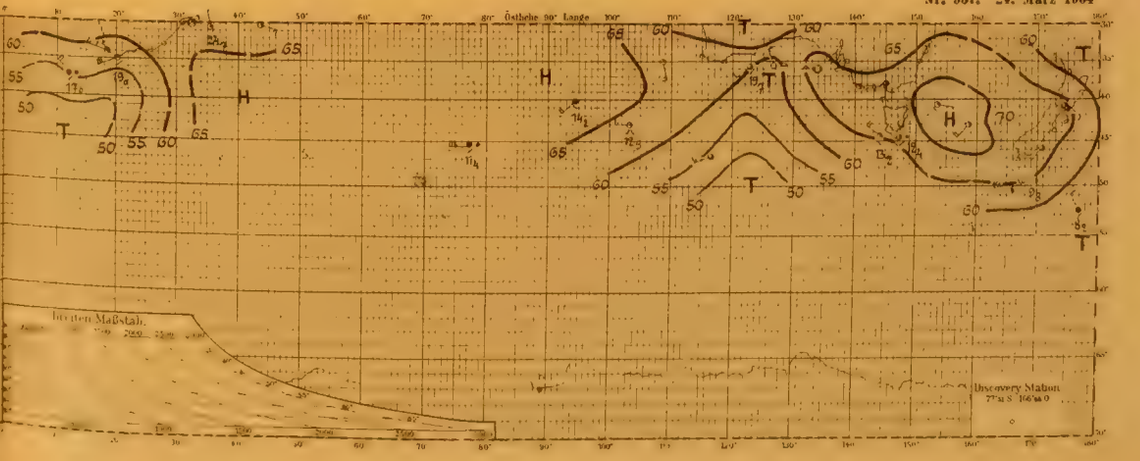
Nr. 956. 23. März 1904



Nr. 957. 24. März 1904

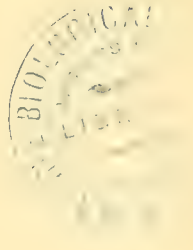


Nr. 957. 24. März 1904

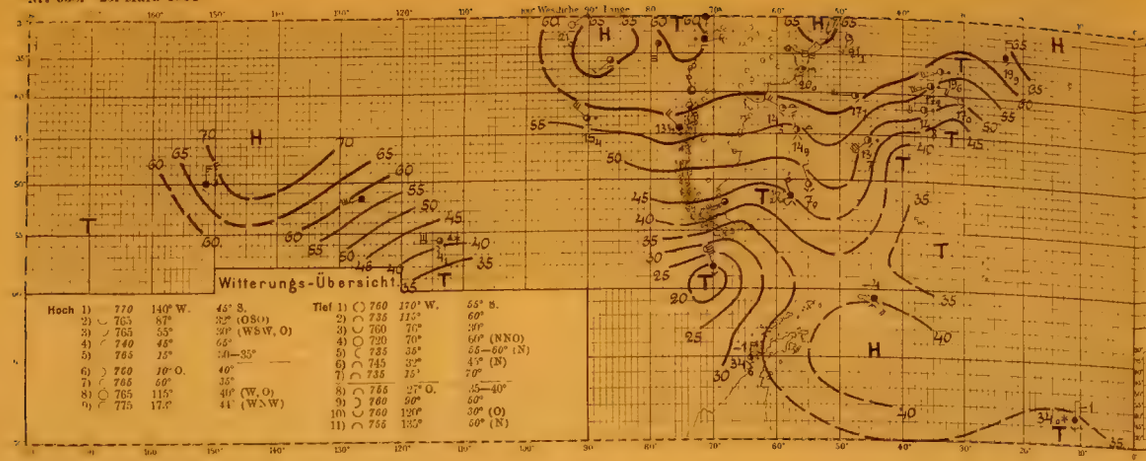


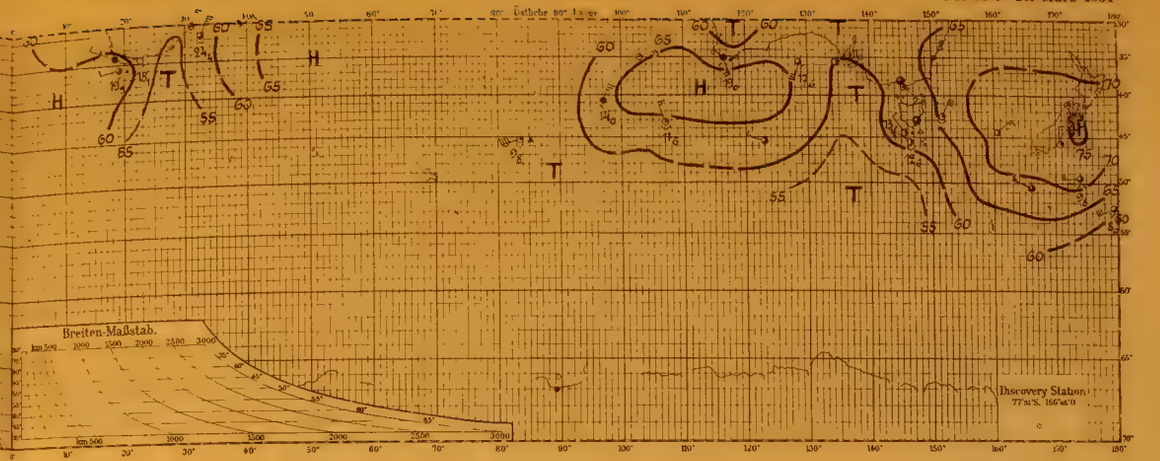
Tafel 320. *Nr. 958—960.*

25.—27. März 1904.

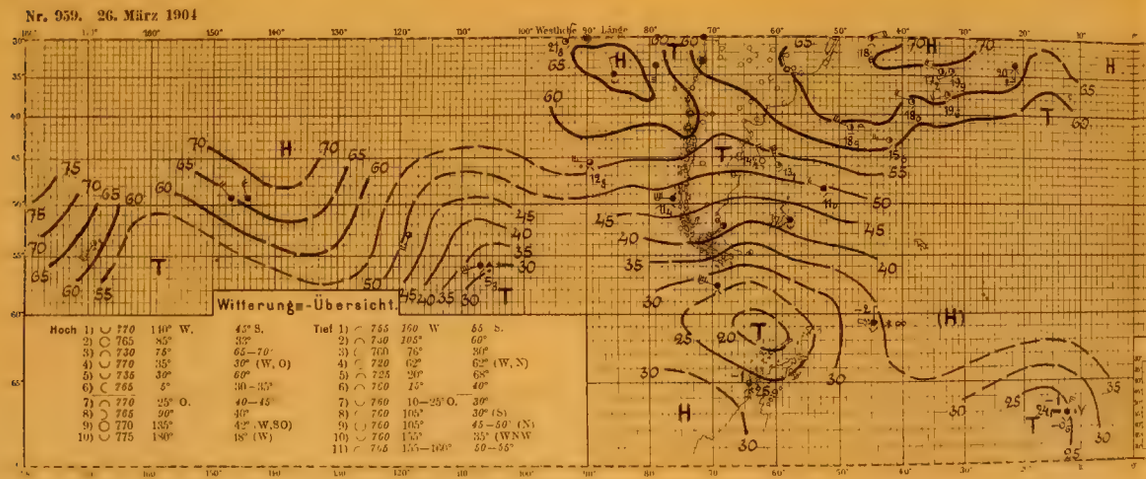


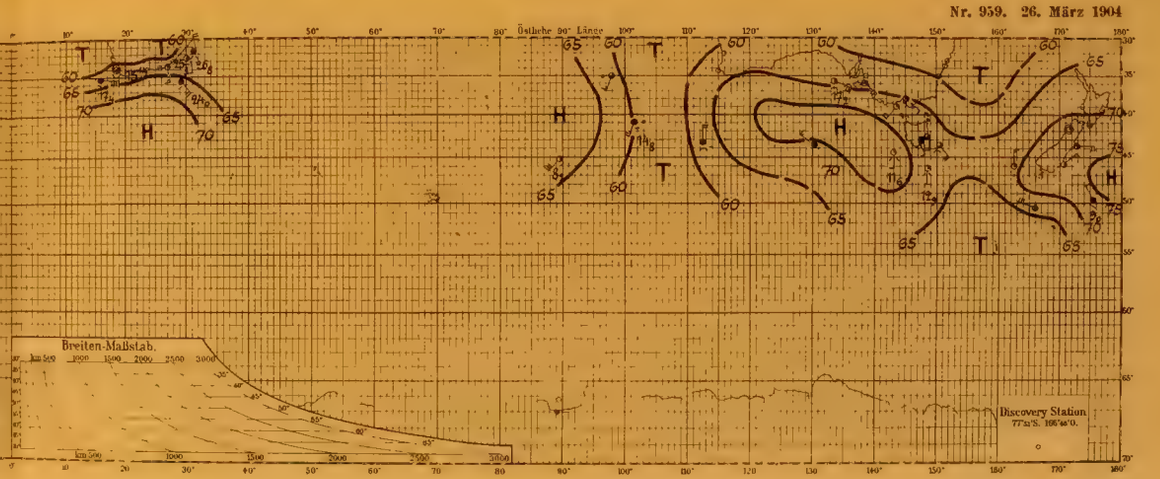
Nr. 958. 25. März 1904



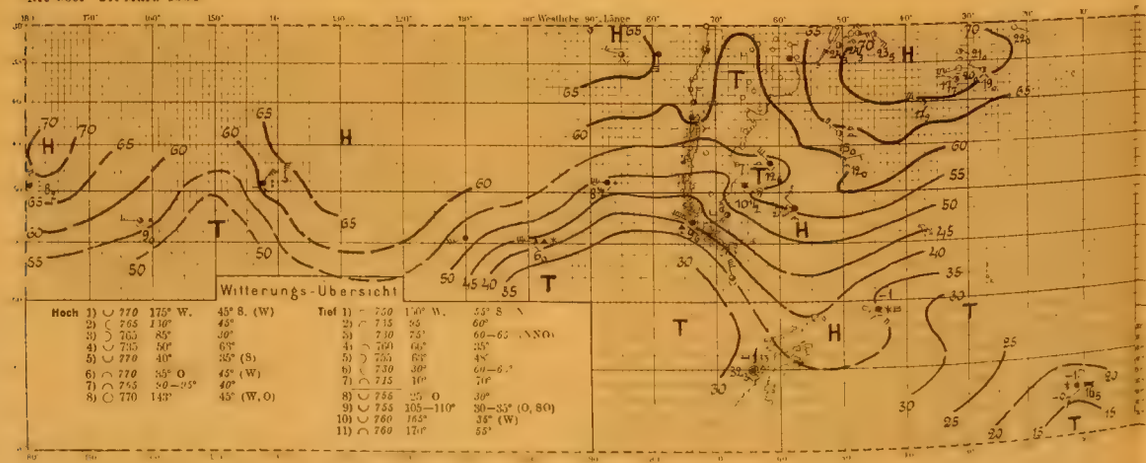


Nr. 959. 26. März 1904





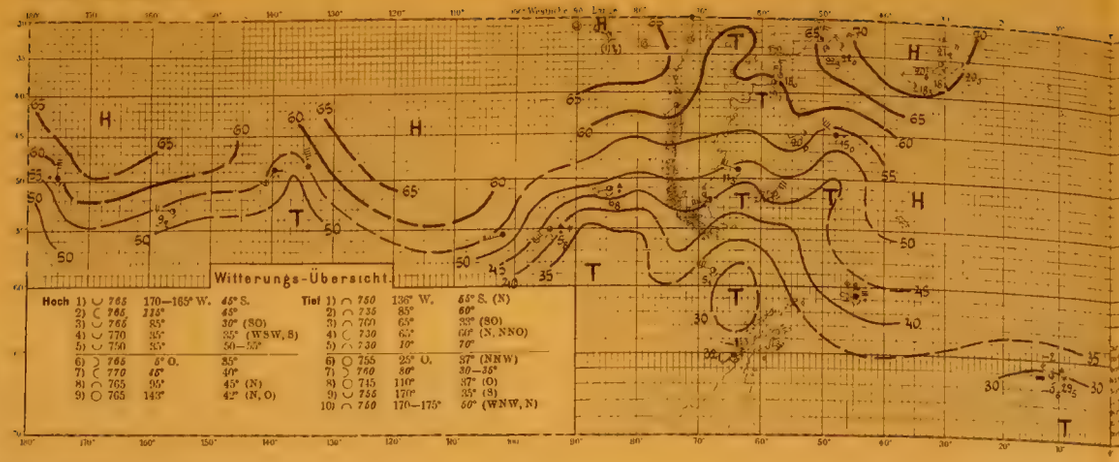
Nr. 960. 27. März 1904

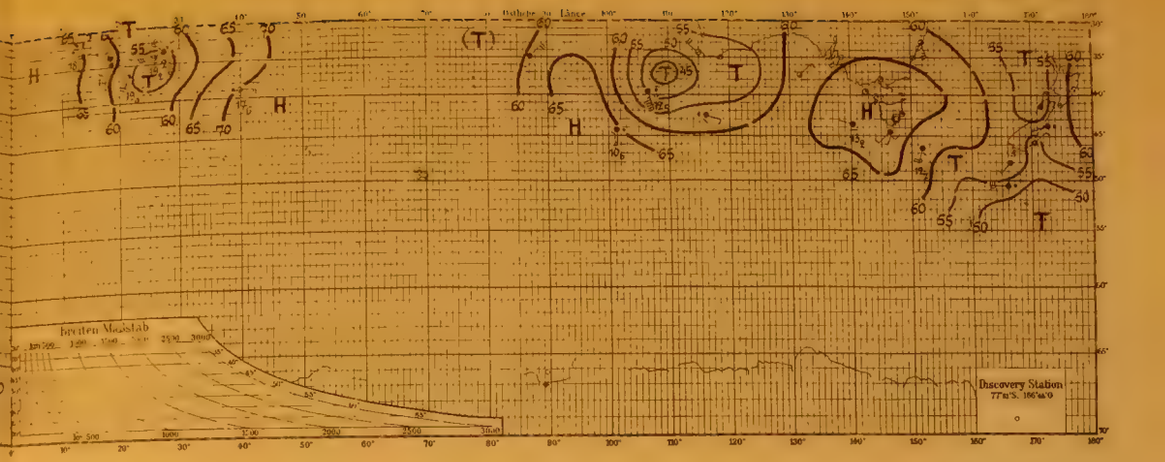


Tafel 321. Nr. 961—963.

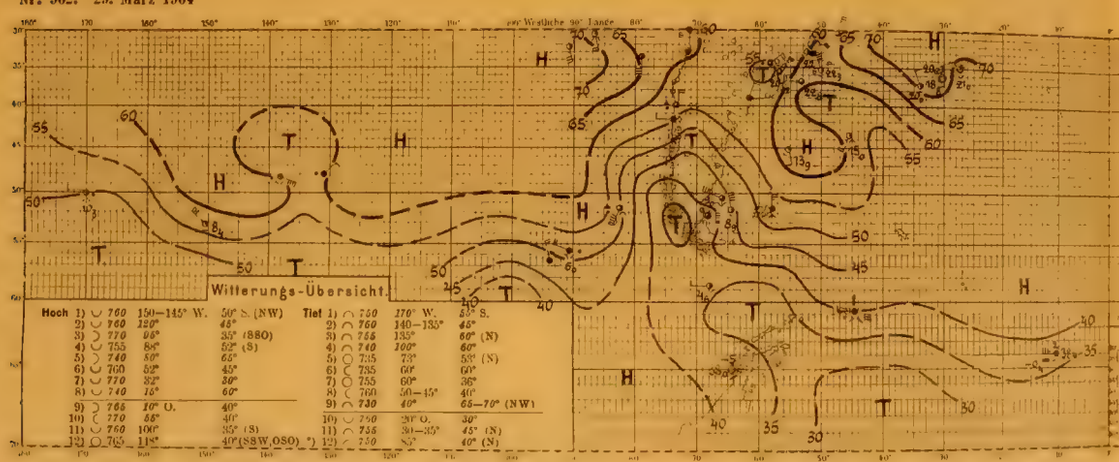
28.—30. März 1904.

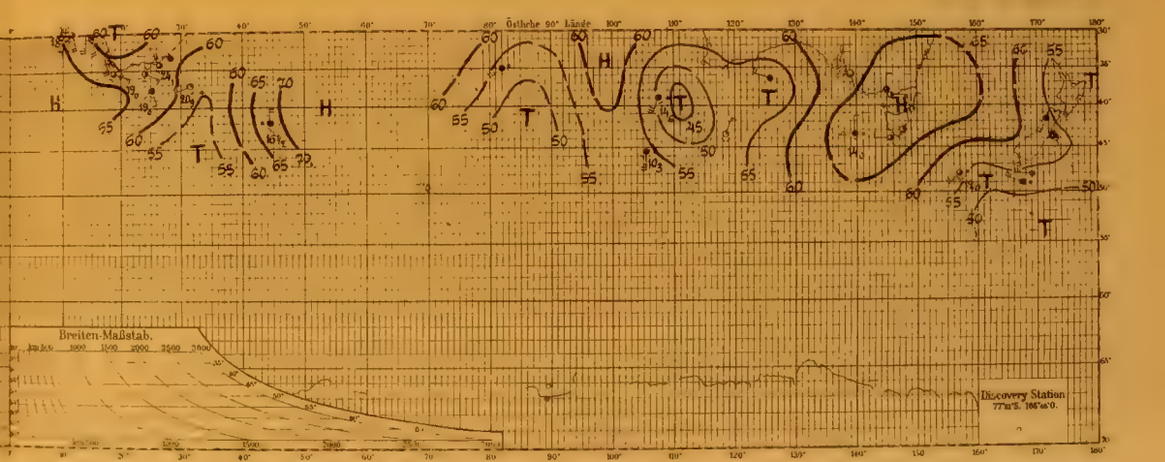
Nr. 961. 28. März 1904



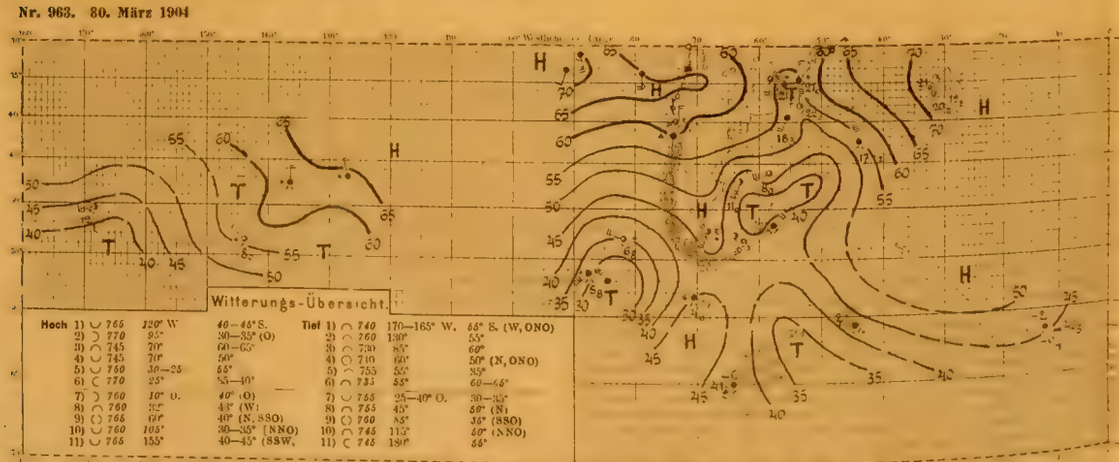


Nr. 962. 29. März 1904





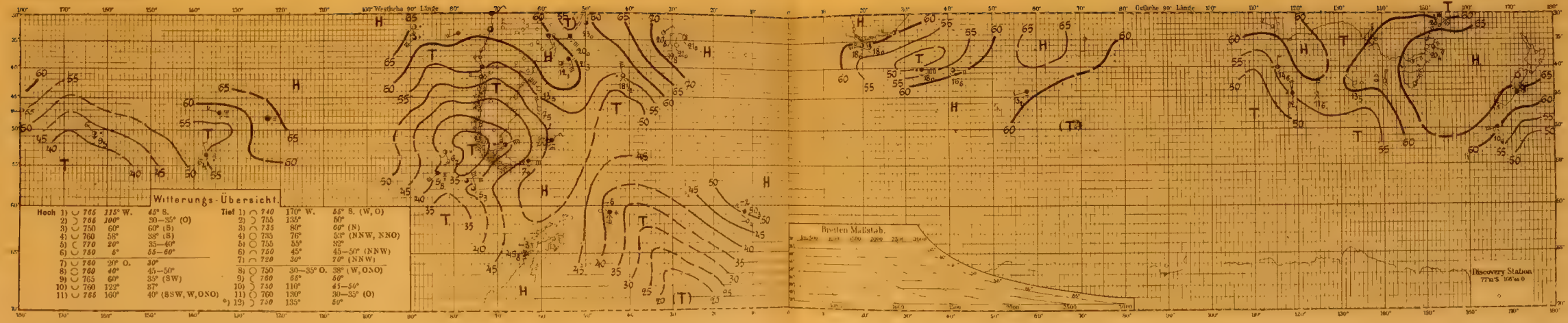
Nr. 963. 30. März 1904



*) 29. März: Tief 13) ○ 745 111° 40° (O)
14) ∩ 750 170° 55° (WNW, NNO)
15) (765 180° 35—40°

Nr. 964. 31. März 1904

Nr. 964. 31. März 1904



Witterungs-Übersicht.

Hoch	1)	∪ 765	115° W.	45° S.	Tief	1) ∩ 740	170° W.	55° S. (W, O)
	2)	∪ 765	100°	30—35° (O)		2) ∩ 755	135°	50°
	3)	750	60°	60° (S)		3) ∩ 735	80°	60° (N)
	4)	760	58°	38° (S)		4) ∩ 735	76°	53° (NNW, NNO)
	5)	∩ 770	20°	35—40°		5) ∩ 755	53°	32°
	6)	∪ 750	8°	55—60°		6) ∩ 750	45°	45—50° (NNW)
	7)	∪ 760	20° O.	30°		7) ∩ 720	30°	70° (NNW)
	8)	∩ 760	40°	45—50°		8) ∩ 750	30—35° O.	38° (W, ONO)
	9)	765	60°	35° (SW)		9) ∩ 760	65°	60°
	10)	∩ 760	122°	37°		10) ∩ 750	110°	45—50°
	11)	∩ 765	160°	40° (SSW, W, ONO)		11) ∩ 760	130°	30—35° (O)
						*) 12) ∩ 750	135°	50°

*) 31. März: Tief 13) ∪ 760 155° 30°
14) ∩ 760 175° 65°

Schlußwort.

Von der Herausgabe des ersten Heftes dieses Atlasses bis zu seiner Vollendung sind vier Jahre verflossen. Dieser lange Zeitraum der Drucklegung erklärt sich zum Teil durch technische Schwierigkeiten bei der Reproduktion der Karten, zum Teil durch sonstige berufliche Verpflichtungen der Bearbeiter, und zuletzt durch den Ausbruch des Weltkrieges, der manche Friedensarbeiten ins Stocken brachte.

Die zuerst entworfenen Arbeitskarten und Witterungsübersichten, über deren Herstellung der erläuternde Text zum Atlas (Meteorologie Band I, 2 S. 24ff.) nähere Auskunft gibt, sind in dieser Zeit vor ihrer Reproduktion noch einmal einer gründlichen Durchsicht und einheitlichen Überarbeitung unterzogen worden. Dabei konnten zuletzt noch manche Ungleichmäßigkeiten beseitigt werden, die sich beim ersten Entwurf der Isobaren kaum hatten vermeiden lassen. So ergaben der systematische Vergleich der Isobarenführung an aufeinanderfolgenden Tagen und die in den deutschen Schiffsjournalbüchern enthaltenen Bemerkungen über die Änderung des Luftdrucks und der Winde von Tag zu Tag nachträglich noch viele nicht unwesentliche Verbesserungen und Ergänzungen. Besonders wertvoll erwies sich auch die spätere Verwendung der in Sidney herausgegebenen australischen Wetterkarten, obgleich dabei zu berücksichtigen war, daß sie nicht für den mittleren Greenwicher Mittag gelten. Ferner konnten erfreulicherweise die Beobachtungen der ersten französischen Südpolar-Expedition von Charcot, auf die zuerst verzichtet werden mußte (vgl. erläuternden Text zum Atlas, a. a. O. S. 15), nach ihrer Veröffentlichung in die Wetterkarten von Februar und März 1904 aufgenommen werden. Das Bild der Wetterlage südlich von Kap Horn ist daher auch für diese Monate weit nach Süden hin erkennbar geworden, wie es durch den gleichzeitigen Vorstoß der „Scotia" in das Weddell-Meer weiter östlich schon der Fall war.

Am Schluß dieser Veröffentlichung auf das aufgewendete Maß von Arbeit zurückblickend, glauben wir sagen zu dürfen, daß das uns übergebene und von uns vervollständigte reichhaltige Material der internationalen meteorologischen Kooperation in diesem Atlas in möglichst zuverlässiger Weise zur weiteren Verwendung dargeboten wird. Daß fast auf jeder Karte infolge fehlender Beobachtungen Lücken und Unsicherheiten im Isobarenzug auftreten, wird von niemanden mehr bedauert als von uns selbst; doch hat uns dieser Mangel niemals dazu verleiten können, durch hypothetische Linienführung die Ausfüllung größerer Lücken auf Kosten der Genauigkeit zu bewirken. So hoffen wir, daß mit dieser Darstellung eine erste objektive Grundlage geschaffen ist zur Lösung mancher Fragen, die bei der Aussendung der Südpolarexpeditionen zu Anfang dieses Jahrhunderts von den meteorologischen Forschern aufgeworfen wurden, und daß damit die Ziele erreicht sind, welche die Deutsche Gauss-Expedition geleitet haben, als sie die internationale meteorologische Kooperation organisierte und an ihre Fahrt schloß.

Münster i. W. und Kiel, im Juli 1915.

W. Meinardus und L. Mecking.

Berichtigungen.

Die Anzahl der Karten ist im Vorwort fälschlich zu 966 (statt 964) angegeben.

Am 16. März 1902 ist der Luftdruck der Kerguelenstation 739.7 (nicht 759.7). Demgemäß ändert sich der Isobarenverlauf zwischen 55° und 85° ö. L. in der Weise, daß südsüdwestlich von Kerguelen ein tiefes Minimum (< 740 mm) anzunehmen und der in 70—75° ö. L. gezeichnete Hochdruckkeil zu beseitigen ist. In der Witterungsübersicht ist eine entsprechende Änderung notwendig. Dagegen ist bei der Zeichnung der Monatsisobaren für März 1902 (Tafel 3 Nr. 7) der richtige Wert berücksichtigt worden, so daß dort keine Änderung vorzunehmen ist.

Am 2. August 1902 lautet die Bezeichnung der Isobare in 35° s. Br. 12° ö. L. 70 (nicht 60).

Am 22. Dezember 1902 ist der Isobarenwert in 50° ö. L. 60 (nicht 65).

Bemerkungen zu den Witterungsübersichten.

Außer den Bemerkungen im Textband (Meteorologie I, 2 S. 29) ist folgendes zu beachten:

Die Luftdruck- und Ortsangaben für die Hoch- und Tiefdruckgebiete sind in der Witterungsübersicht kursiv gesetzt, wenn sie nur annähernd bestimmbar waren. Die Lage von Teildepressionen und Hochdruckkeilen in bezug auf die Kerngebiete des Luftdrucks ist hinter diesen durch die Himmelsrichtung in Klammern bezeichnet. In ganz unsicheren Fällen ist die Bezeichnung der Hochs (H) und Tiefs (T) in den Karten eingeklammert.